

A.L. 7 ta' l-2008

## ATT DWAR IR-RADJUKOMUNIKAZZJONI (KAP. 49)

### Regolamenti ta' l-2008 dwar Awtorizzazzjonijiet Ġenerali (Apparat tar-Radjokomunikazzjoni)

BIS-SAHHA tas-setghat moghtija bl-artikolu 19 ta' l-Att dwar ir-Radjokomunikazzjoni, il-Ministru għall-Kompetittività u Komunikazzjoni għamel dawn ir-regolamenti li ġejjin:

#### Parti I

##### Preliminari

1. (1) It-titolu ta' dawn ir-regolamenti hu Regolamenti ta' l-2008 dwar Awtorizzazzjonijiet Ġenerali (Apparat tar-Radjokomunikazzjoni). Titolu u bidu fis-sehh.

(2) Dawn ir-regolamenti għandhom jitqiesu li dahlu fis-sehh fl-1 ta' Jannar 2008.

2. (1) Sakemm ir-rabta tal-kliem ma titlobx mod iehor, kull referenza f'dawn ir-Regolamenti għal "l-Att" hija referenza għall-Att dwar ir-Radjokomunikazzjoni, u bla hsara għad-dispożizzjonijiet tas-subregolament (2) ta' dan ir-regolament, id-dispożizzjonijiet ta' l-artikoli 2 u 7 ta' l-Att imsemmi u d-dispożizzjonijiet ta' l-artikolu 2 ta' l-Att dwar il-Bastimenti Merkantili għandhom japplikaw għal dawn ir-regolamenti: Tifsir.  
Kap. 49.  
Kap. 234.

(2) F'dawn ir-regolamenti, sakemm ir-rabta tal-kliem ma titlobx mod iehor:

“apparat ta' *Radio Frequency Identification*” jew “apparat ta' RFID” tfisser apparat jew, *inter alia*, l-identifikazzjoni jew *tracking* ta' oggetti permezz ta' l-użu ta' sistema tar-radju li tikkonsisti min-naha ta' *passive devices (tags)* immuntati fuq l-oġġetti u, min-naha l-oħra ta' *transmitter* jew *receiver units (readers)* li jattivaw it-tags u jirċievu lura d-data;

“L-Awtorità” tfisser l-Awtorità ta’ Malta dwar il-Komunikazzjoni;

“densità medja ta’ e.i.r.p.” tfisser il-qawwa medja meqjusa b’medda ta’ rezoluzzjoni ta’ 1 MHz, b’*detector* ta’ l-gherq kwadrat medju (RMS) u medja ta’ hin ta’ 1ms jew anqas;

“Direttiva 70/156/KEE” tfisser Direttiva tal-Kunsill 70/156/KEE tas-6 ta’ Frar 1970 fuq l-approssimazzjoni tal-liġijiet ta’ l-Istati Membri li għandhom x’jaqsmu ma’ l-approvazzjoni tat-tip ta’ vetturi bil-mutur u l-karrijiet tagħhom;

“Direttiva 98/34/KE” tfisser id-Direttiva tal-Parlament Ewropew u tal-Kunsill tat-22 ta’ Ġunju 1998 li tistabbilixxi proċedura għall-ghoti ta’ informazzjoni fil-qasam ta’ *standards* u tar-Regolamenti Tekniċi;

“*duty cycle*” tfisser il-proporzjon, espressa bħala perentwali, tat-trażmettitur massimu ‘*on*’ *time on one carrier frequency* relattiva għal perjodu ta’ siegħa;

“*Dynamic Frequency Selection*” jew “DFS” tfisser teknika ta’ mitigazzjoni ta’ interferenza biex tevita l-operazzjoni ta’ *co-channel* ma’ *networks* u, jew servizzi ta’ komunikazzjoni elettronika ohrajn u biex tiżgura t-tixrid tat-tagħbija ma’ l-ispettru aċċessibbli kollu tas-sistema ta’ aċċess bla fili taħt il-vista tal-veduta ta’ satellita biex tnaqqas il-livelli ta’ emissjoni aggregati fis-satelliti (*feeder links*) tas-servizz ta’ satelliti fissi u s-servizz (attiv) tas-satellita-esplorattiva tad-dinja minn sistemi li jintlahqu bla fili;

“EAS” tfisser *electronic article surveillance*;

“*effective radiated power*” jew “e.r.p.” tfisser it-totalita ta’ l-enerġija provduta lill-antenna u ż-żieda tagħha relattiva għal *half-wave dipole* f’direzzjoni speċifikata;

“ETSI” tfisser il-*European Telecommunications Standards Institute*;

“fuq bażi ta’ non-interferenza u mingħajr protezzjoni” tfisser li ebda interferenza li tista’ tagħmel hsara ma tista’ tkun ikkagunata lil utenti ohrajn tal-banda u li ma tista’ ssir ebda talba għal protezzjoni minn interferenza li tista’ tagħmel hsara li gejjja minn sistemi jew servizzi ohrajn li joperaw f’dik il-banda;

“id-densità massima ta’ l- e.i.r.p.” tfisser l-ogħla saħħa ta’ sinjal meqjus f’kull direzzjoni f’kull frekwenza fil-medda definita;

“interferenza li tagħmel ħsara” tfisser interferenza li tipperikola l-funzjonijiet tas-servizz ta’ radjonavigazzjoni jew ta’ servizzi ta’ sigurtà oħrajn jew li b’xi mod iehor tiddegreda, tostakola jew tinterrompi ripetutament servizz ta’ radjokomunikazzjoni li jopera skond il-liġi tal-Komunità Ewropea jew il-Liġijiet ta’ Malta li jkunu f’dak il-waqt japplikaw;

“komunikazzjoni ta’ periklu u ta’ periklu għas-sigurtà” tfisser sejhiet u messaġġi f’każ ta’ periklu, urġenza u periklu għas-sigurtà;

“il-Komunità” tfisser il-Komunitajiet Ewropej;

“l-ogħla densità e.i.r.p.” tfisser l-ogħla livell ta’ trażmissjoni go medda ta’ frekwenzi ta’ 50 MHz iċċentrata fuq il-frekwenza fejn isseħh l-ogħla qawwa irradjata medja. Jekk meqjusa fuq medda ta’ x MHz, dan il-livell għandu jittnaqqas b’fattur ta’  $20\log(50/x)$  dB;

“medja ta’ e.i.r.p.” tfisser l-e.i.r.p. waqt it-*transmission burst* li tikkorrispondi ma’ l-ogħla qawwa ta’ enerġija, jekk ikun hemm kontroll ta’ l-enerġija;

“medda ta’ operat ta’ frekwenza” tfisser il-porzjon ta’ l-ispettru tar-radju li apparat ta’ radjokomunikazzjoni għandu intenzjonalment jitfa’ sinjali tar-radju biex jaqdi l-funzjoni u l-operat li hu mfassal għalihom;

“il-Ministru” tfisser il-Ministru responsabbli għall-komunikazzjoni;

“persuna” tinkludi kull korp magħqud u kull korp ta’ persuni, kemm jekk għandu personliżà legali distint minn dik tal-membri tiegħu kemm jekk le, li għandu l-pussess jew kontroll ta’ xi apparat ta’ radjokomunikazzjoni li f’relazzjoni miegħu dawn ir-regolamenti jistgħu japplikaw;

“qawwa irradjata isotropika ekwivalenti” jew “e.i.r.p.” tfisser it-totalità ta’ l-enerġija provduta lill-antenna u ż-żjieda li tagħmel l-antenna f’direzzjoni speċifikata relattiva għal *isotropic antenna* (żjieda assoluta jew isotropika);

“Regolamenti R&TTE” tfisser ir-Regolamenti ta’ l-2002 dwar it-Tagħmir tar-Radju u Tagħmir Terminali ta’ Telekomunikazzjoni u r-Rikonoxximent Reċiproku tal-Konformità tagħhom; A.L. 374 ta’ l-2002.

“Regolamenti tar-Radju” tfisser ir-Regolamenti tar-Radju annessi ma’, jew meqjusin li huma annessi ma’ l-aktar Konvenzjoni Internazzjonali tat-Telekomunikazzjoni riċenti li tkun fis-sehh dak iż-żmien;

“*standard armonizzat*” tfisser speċifikazzjoni teknika adottata minn korp ta’ *standards* rikonoxxut taht mandat mill-Kummissjoni Ewropea f’konformità mal-proċeduri mnizzlin fid-Direttiva 98/34/KE bl-iskop li jstabbilixxu rekwiżit Ewropew li l-konformità mieghu m’hix obligatorja;

“*transmit power control*” jew “TPC” tirreferi ghal teknika fejn it-transmitter output power jigi kkontrollat biex tikkaguna tnaqqis ta’ interferenza lil *networks* ohrajn;

“uffiċjal awtorizzat” tfisser kull uffiċjal ta’ l-Awtorità, jew kull uffiċjal iehor ta’ kull awtorità publika ohra debitament awtorizzat skond id-dispożizzjonijiet ta’ l-Att biex jinforza konformità ma’ l-Att u, jew ma’ dawn ir-regolamenti:

Iżda ghal-finijiet ta’ kull apparat tar-radjokomunikazzjoni marittima, ikun deskritt kif ikun, “uffiċjal awtorizzat” jinkludi kull spettur tar-radjokomunikazzjoni marittima u, jew kull uffiċjal debitament awtorizzat mill-Awtorità Marittima ta’ Malta;

“*ultra high frequency*” jew “UHF” tfisser frekwenza li taqbez it-300 megahertz iżda li ma taqbiżx it-3 gigahertz;

“urġenza” f’relazzjoni ghal trażmissjoni, tfisser is-sigurtà ta’ bastiment, ajruplan jew persuna li jehtiegu attenzjoni urġenti;

“użu ghal ġewwa” tfisser l-użu ġewwa bini, inklużi postijiet assimilati mieghu bhal ajruplan, li l-ghata protettiva tiegħu tagħti tipikament l-attenwazzjoni mehtieġa biex tiffaċilita l-qsim ma’ servizzi ohrajn; u

“vettura” tfisser kull vettura kif definit fid-Direttiva 70/156/KEE;

“*very high frequency*” jew “VHF” tfisser frekwenza li taqbez it-30 megahertz iżda li ma taqbiżx it-300 megahertz.

## Parti II

### Dispożizzjonijiet Ġenerali

**3.** L-Iskedi li jinstabu ma' dawn ir-regolamenti jistabbilixxu dawk l-awtorizzazzjonijiet ġenerali għal apparat ta' radjokomunikazzjoni li bihom persuna hija awtorizzata li tixtri, tbigh, ikollha fil-pussess jew fil-kontroll tagħha, tistalla u topera l-apparat ta' radjokomunikazzjoni kollu jew uħud minnu li tapplika għalihom awtorizzazzjonijiet ġenerali taht dawn ir-regolamenti:

Twaqqif ta' awtorizzazzjonijiet ġenerali għal apparat ta' radjokomunikazzjoni elenkati.

Iżda persuna għandha f'kull ċirkustanza tikkonforma ma' kull rekwiżit imsemmi fl-Att u, jew f'dawn ir-regolamenti skond kif jistgħu japplikaw għall-apparat ta' radjokomunikazzjoni koperti minn awtorizzazzjonijiet ġenerali taht dawn ir-regolamenti.

**4.** (1) Kull persuna li tgawdi minn awtorizzazzjonijiet ġenerali għal kull xorta ta' apparat ta' radjokomunikazzjoni li dawn ir-regolamenti japplikaw għalih, għandha tkun tikkonforma dejjem ma' kull deċiżjoni, tkun kif tkun deskritta, meħuda mill-Ministru fir-rigward ta' interferenza li tagħmel hsara u għandha tiżgura li kull apparat ta' radjokomunikazzjoni jkun jikkonforma dejjem ma' *standards* applikabbli u jithaddem skond il-kondizzjonijiet applikabbli biex ikun żgurat li din l-operazzjoni ma tikkagunax interferenza li tagħmel hsara lill-apparat iehor ta' radjokomunikazzjoni.

Interferenza li tagħmel hsara.

(2) L-użu ta' l-apparat ta' radjokomunikazzjoni li għalih japplikaw dawn ir-regolamenti hu fuq bażi ta' non-interferenza u mingħajr protezzjoni.

(3) Kull persuna li tgawdi awtorizzazzjonijiet ġenerali għal kull apparat ta' radjokomunikazzjoni li għalih japplikaw dawn ir-regolamenti m'għandhiex iżżomm responsabbli lill-Ministru, u meta dan ikun applikabbli lill-Awtorità u, jew lil xi Awtorità pubblika kompetenti ohra, għal xi interferenza li tagħmel hsara li jkun allegat li dahlet minn apparat ta' radjokomunikazzjoni iehor.

**5.** Ebda persuna m'għandha tittrażmetti jew tiċċirkola sinjali foloz jew qarrieqa ta' periklu, urġenza, sigurtà jew identifikazzjoni.

Ttrażmissjoni jew ċirkolazzjoni ta' sinjali foloz jew qarrieqa ta' periklu, eċċ.

**6.** (1) Xejn taht dawn ir-regolamenti m'għandu jeżenta lil xi persuna minn xi rekwiżit li tikseb xi permess, awtorizzazzjoni jew liċenza ohrajn, ikunu kif ikunu deskritti, skond kif jista' jkun meħtieġ taht kull liġi ohra li tolqot l-istallazzjoni u, jew l-operazzjoni ta' apparat ta' radjokomunikazzjoni li għalih japplikaw dawn ir-regolamenti.

Htieġa li wiehed jimxi ma' kull rekwiżit taht xi liġijiet ohra eċċ.

(2) Xejn f'dawn ir-regolamenti m'ghandu jkun interpretat li jeżenta jew jehles lil xi persuna milli tikkonforma ruhha ma' xi liġijiet jew deċiżjonijiet ohrajn, ikunu kif ikunu deskritti, li l-Ministru jista' johroġ minn żmien għal żmien.

Konformità ma' speċifikazzjonijiet u *standards* ta' apparat.

**7.** Kull apparat ta' radjokomunikazzjoni kopert minn awtorizzazzjoni ġenerali taht dawn ir-regolamenti għandu jkun konformi mad-dispożizzjonijiet tar-Regolamenti R&TTE sakemm ma jigix dikjarat mod iehor fl-awtorizzazzjoni ġenerali applikabbli għal dak l-apparat ta' radjokomunikazzjoni.

Għoti ta' informazzjoni.

**8.** Il-Ministru jista' jitlob lil kull persuna li tagħtih kull informazzjoni dwar kull apparat ta' radjokomunikazzjoni li jkun fil-pussess ta' dik il-persuna jew li jkun qiegħed jintuża minnha li fir-rigward ta' dak l-apparat tkun tapplika awtorizzazzjoni ġenerali taht dawn ir-regolamenti.

Spezzjonijiet.

**9.** Uffiċjal awtorizzat jista' jisperzzjona apparat tar-radjokomunikazzjoni koperti minn awtorizzazzjoni ġenerali taht dawn ir-regolamenti biex jiżgura konformità ma dawn ir-regolamenti.

## **L-ewwel Skeda**

### **(Regolament 3)**

#### **Awtorizzazzjoni Ġenerali għal Stazzjonijiet Marittimi VHF u EPIRB għal Bastimenti**

Applikabilità ta' l-Ewwel Skeda.

**1.** Din l-Awtorizzazzjoni Ġenerali tapplika għal kull persuna li tixtri, tbigh jew ikollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera stazzjon marittimu għal bastimenti, jew kull apparat maħsub biex ikun użat bħala parti komponenti ta' stazzjon ta' din ix-xorta abbord bastiment reġistrat taht l-Att dwar il-Bastimenti Merkantili u, jew taht l-Att dwar il-Konservazzjoni u l-Amministrazzjoni tas-Sajd.

Kap. 234 u Kap. 425.

Tifsir.

**2.** F'din l-Iskeda, sakemm ir-rabta tal-kliem ma titlobx mod iehor:

“bastiment” tfisser kull xorta ta' biċċa tal-baħar li tintuza fin-navigazzjoni, sew jekk titmexxa bil-makni tagħha stess sew jekk le, u tinkludi braken, puntuni u *oil rigs* u bċejjeċ tal-baħar li jitmexxew permezz ta' mqadef, u għal daww it-taqsimiet ta' l-Att dwar il-Bastimenti Merkantili kull fejn tapplika, għandha tinkludi wkoll bastiment fi stat ta' kostruzzjoni;

“*digital selective calling*” jew “DSC” tfisser teknika li tuża *codes* digitali li bihom stazzjon tar-radju jista’ jistabbilixxi kuntatt ma’ stazzjon ieħor jew ma’ grupp ta’ stazzjonijiet, jew jittrasferilhom informazzjoni, u li tkun tikkonforma mar-rakkomandazzjonijiet rilevanti tas-settur tar-radjokomunikazzjoni ta’ l-Unjoni Internazzjonali dwar it-Telekomunikazzjoni (ITU);

“Dipartiment tas-Sajd” tfisser it-Taqsima għall-Konservazzjoni u Kontroll tas-Sajd, jew kull Awtorità responsabbli ohra għar-registrazzjoni ta’ bastimenti tas-sajd;

“frekwenza privata” tfisser frekwenza li tkun għet assenjata fuq bażi esklussiva jew bejn tnejn jew aktar lil individwu jew kumpannija liema frekwenza ma tkunx konformi mal-frekwenzi VHF;

“frekwenzi VHF” tfisser il-frekwenzi tar-radju msemmijin fl-Ewwel Anness ta’ l-Ewwel Skeda li tinsab ma’ dawn ir-regolamenti.

“ibhra territorjali” tfisser il-partijiet kollha tal-baħar miftuh sa tnax-il mil nawtiku ’l barra mill-kosta ta’ Malta, jew tali distanza ohra kif tista’ tkun stabbilita taħt l-artikolu 3 ta’ l-Att dwar l-Ibhra Territorjali u z-Zoni Kontingwa, imkejla kif inhu provdut f’ dak l-Att, u tinkludi dawk l-ibhra bejn il-linji bażi msemmija hemm u l-kosta; Kap. 226.

“numru ta’ *maritime mobile service identity*” jew “numru ta’ MMSI” tfisser numru waħdani b’ 9 ċifri li jidentifika bastiment li jkollu DSC, liema numru jkun mahruġ mill-Awtorità Marittima ta’ Malta jew minn kull Awtorità kompetenti ohra;

“Reġistratur-Ġenerali” tfisser ir-Reġistratur-Ġenerali ta’ Bastimenti u l-Bahrin kif hemm fl-Att dwar il-Bastimenti Merkantili, u tinkludi kull persuna li taġixxi taħt l-Awtorità tiegħu; Kap. 234.

“*Rescue Coordination Centre*” tfisser il-Forzi Armati ta’ Malta, Luqa Barracks, Hal-Luqa, Malta jew kull Awtorità kompetenti ohra għall-koordinament ta’ operazzjonijiet ta’ tiftix u salvataġġ marittimu;

“sigurtà” tfisser it-trażmissjoni ta’ twissija importanti navigazzjonali jew meteoroloġika permezz ta’ l-istazzjon VHF;

“stazzjon ta’ *emergency position-indicating radiobeacon*” jew “stazzjon ta’ EPIRB” tfisser stazzjon fis-servizz mobbli li l-

emissjonijiet tieghu huma maħsubin biex jiffaċilitaw operazzjonijiet ta' tiftix u salvataġġ;

“Stazzjon Marittimu fuq Bastiment jew “stazzjon ta' VHF” tfisser apparat ta' radjokomunikazzjoni marittima fuq bastiment li jibgħat u jirċievi u li jopera, jekk ma jingħadx mod iehor, fuq il-frekwenzi VHF; u

“zona tal-baħar A1” tfisser zona fil-limiti tal-kopertura radjotelefonika ta' mill-inqas stazzjon kostali VHF wiehed li fih hemm aċċessibbli twissija ta' allarm DSC kontinwa.

Regolamenti  
R&TTE.

**3.** Sakemm ma jenhtiegħx mod iehor mill-Awtorità, stazzjon VHF li jkollu liċenza valida għal radjokomunikazzjoni, tkun kif tkun deskritta, qabel id-dhul fis-seħh ta' dawn ir-regolamenti hu eżenti mir-rekwiżit li jkun konformi mad-dispożizzjonijiet tar-Regolamenti R&TTE.

Frekwenzi  
Operattivi ta' l-  
istazzjonijiet  
marittimi għal  
bastimenti.

**4.** Stazzjonijiet marittimi għal bastimenti li joperaw f'ibhra territorjali għandhom ikunu kapaċi joperaw biss fuq kull frekwenza tal-VHF speċifikata fl-Ewwel Anness ma' din l-Iskeda u m'għandhomx jużaw xi frekwenza ohra u, jew xi kanal iehor:

Iżda persuna li tkun giet assenjata frekwenza privata tista' topera wkoll stazzjon marittimu għal bastimenti kopert minn din l-Awtorizzazzjoni Ġenerali fuq dik il-frekwenza:

Kap. 35.

Iżda wkoll li persuna li tkun giet assenjata frekwenza privata għandha thallas dawk il-hlasijiet applikabbli taht l-Ordinanza dwar id-Drittijiet jew kull ligi ohra fis-seħh.

Lokazzjoni ta' l-  
istazzjon.

**5.** Persuna m'għandhiex tistalla u, jew topera stazzjon marittimu għal bastimenti li jkun fuq l-art:

Iżda Awtorità publika tista' tistalla stazzjon marittimu għal bastimenti fuq l-art jekk tkun awtorizzata tagħmel dan mill-Awtorità.

Thaddim ta' l-  
istazzjon marittimu  
għal bastimenti.

**6.** (1) Bla preġudizzju għal xi rekwiżiti ohrajn fil-liġi, persuna għandha, kemm fil-limiti ta' l-ibhra territorjali kemm barra minnhom, thaddem biss stazzjon marittimu għal bastimenti skond id-dispożizzjonijiet tar-Regolamenti tar-Radju.

(2) Hlief fil-każ ta' komunikazzjonijiet ta' tiftix u salvataġġ, persuna m'għandhiex thaddem stazzjon marittimu għal bastimenti sakemm dik il-persuna:

(a) hi kwalifikata biex thaddem tali stazzjoni, jew

(b) thaddem tali stazzjon taht is-superviżjoni ta' persuna li hi kwalifikata biex thaddem stazzjon ta' din ix-xorta.

**7.** Persuna hija kwalifikata biex thaddem stazzjon marittimu ghal bastimenti jekk ikollha mill-inqas *short range certificate* (SRC) mahruġ mir-Reġistratur-Ġenerali jew ikollha kwalifika rikonoxxuta mill-Awtorità Marittima ta' Malta bħala ekwivalenti ghal *short range certificate*:

Kwalifiki ghat-thaddim ta' l-istazzjon marittimu ghal bastimenti.

Izda kull ċertifikat jew kwalifika ta' din ix-xorta ghandhom ikunu aċċessibbli biex ikunu spezzjonati meta jintalbu, ikun meta jkun, minn xi uffiċjal awtorizzat meta l-istazzjon marittimu ghal bastimenti jkun stallat abbord bastiment jew meta stazzjon marittimu ghal bastimenti jkun qed jithaddem.

**8.** Kull persuna li bastiment ikun reġistrat f'isimha ma' l-Awtorità Marittima ta' Malta jew mad-Dipartiment tas-Sajd ghandha tkun responsabbli ghal stazzjon marittimu ghal bastimenti reġistrat biex jithaddem abbord jew ghal kull stazzjon marittimu ghal bastimenti iehor li jinsab li hu stallat jew qed jithaddem abbord dak il-bastiment.

Responsabbiltà ghal stazzjonijiet marittimi ghal bastimenti.

**9.** Kull stazzjon marittimu ghal bastimenti li hu mghammar b' stazzjon DSC u EPIRB ghandu jkun reġistrat ma' l-Awtorità Marittima ta' Malta jew ma' xi Awtorità kompetenti ohra kif l-Awtorità tista' tqis xieraq fiċ-ċirkustanzi:

Registrazzjoni ta' stazzjonijiet marittimi fuq bastimenti.

Izda r-reġistrazzjoni ta' kull stazzjon ta' din ix-xorta li ma jkunx imhaddem abbord bastiment ghandna ssir mill-persuna li dak il-bastiment hu reġistrat f'isimha ma' l-Awtorità Marittima ta' Malta jew mad-Dipartiment tas-Sajd skond il-każ jew mir-rappreżentant awtorizzat taghha.

**10.** (1) Kull persuna li tgawdi minn awtorizzazzjoni ġenerali skond din l-Iskeda ghandha tiżgura li kull stazzjon marittimu ghal bastimenti u stazzjon EPIRB li jahdmu taht awtorizzazzjoni ġenerali ta' din ix-xorta jkollu assenjat lilu sinjal ta' sejha mill-Awtorità Marittima ta' Malta jew minn xi Awtorità kompetenti kif l-Awtorità tista' tqis xieraq, liema sinjal ta' sejha ghandu jintuza biss fuq il-bastiment li hu reġistrat fuqu.

Sinjali ta' sejha.

(2) Is-sinjal ta' sejha ghandu jibqa' mal-bastiment tul hajtu kollu, ikunu x'ikunu l-bidliet fil-propjetarju jew f'isem il-bastiment.

(3) Sinjali ta' sejha m'humix trasferibbli minn bastiment ghal iehor.

(4) Persuna li thaddem stazzjon marittimu għal bastimenti għandha tuża s-sinjal ta' sejha assenjat lill-bastiment li minn l-istazzjon marittimu għal bastimenti jkun qed jithaddem fil-bidu ta' kull trażmissjoni jew sensiela ta' trażmissjonijiet.

Numri MMSI.

**11.** (1) Kull persuna li tgawdi minn awtorizzazzjoni ġenerali taht din l-Iskeda għandha tiżgura li kull stazzjon marittimu li hu mghammar b' DSC ikun assenjat numru MMSI mill-Awtorità Marittima ta' Malta jew minn xi Awtorità kompetenti ohra hekk kif l-Awtorità tista' tqis xieraq:

Iżda tali persuna għandha tiżgura wkoll li stazzjon marittimu għal bastimenti hu programmat bin-numru MMSI assenjat.

(2) Numri MMSI m'humix trasferibbli minn bastiment għal ieħor.

(3) Persuna li jkollha stazzjon EPIRB għandha tiżgura li:

(a) dan l-istazzjon jintuża biss abbord bastiment;

(b) dan l-istazzjon hu registrat ma' l-Awtorità Marittima ta' Malta jew mad-Dipartiment tas-Sajd, u

(ċ) kull stazzjon EPIRB jew imwahhal jew qed jingarr abbord bastiment ikun programmat bin-numru MMSI ta' dak il-bastiment kif assenjat mill-Awtorità Marittima ta' Malta jew xi Awtorità kompetenti ohra kif l-Awtorità tista' tqis xieraq.

Trasferiment ta' stazzjonijiet VHF jew EPIRB.

**12.** Persuna li tittrasferixxi stazzjon VHF mghammar b'DSC u, jew stazzjon EPIRB minn bastiment għal ieħor għandha tgharraf lill-Awtorità Marittima ta' Malta jew lil xi Awtorità kompetenti ohra qabel tistalla xi wiehed mill-istazzjonijiet imsemmija hawn fuq bastiment biex tapplika għal numru MMSI.

Emissjonijiet u mod kif joperaw stazzjonijiet VHF.

**13.** (1) L-istazzjonijiet VHF kollha li għandhom DSC għandhom ikunu jistghu jibagħtu u jirievu emissjoni tal-klassi G2B fuq il-frekwenza 156.525 MHz (Kanal 70).

(2) L-istazzjonijiet kollha mghamrin b'apparat għal-radjotelefonija biex topera fil-banda VHF għandhom ikunu jistghu jibagħtu u jirćievu emissjonijiet tal-klassi G3E fuq:

(a) il-frekwenza ta' periklu , sigurtà u sejhat 156.800 MHz (kanal 16);

(b) il-frekwenza primarja bejn bastimenti 156.300 MHz (kanal 06);

(ċ) il-frekwenza ta' sigurtà ta' navigazzjoni bejn bastimenti 156.650 MHz (kanal 13); u

(d) il-frekwenzi kollha mehtieġa għas-servizz tagħhom.

(3) Il-*carrier power* ta' trażmissjoni ta' stazzjon VHF m'għandux jaqbeż il-25 Watts, u l-użu ta' amplifikaturi ta' enerġija hu projbit.

(4) Il-*channel spacing* ta' stazzjon VHF għandu jkun 25 kHz.

(5) Biex ihaffef il-qbid ta' sinjali ta' sejhat ta' periklu u traffiku, it-trażmissjonijiet kollha fuq 156.800 MHz (kanal 16) għandhom jinżammu qosra kemm jista' jkun u m'għandhomx ikunu aktar minn minuta.

(6) Qabel jittrażmetti fuq il-frekwenza 156.800 MHz (kanal 16) stazzjon VHF għandu jisma fuq din il-frekwenza għal żmien raġonevoli biex ikun żgur li m'hu qed jintbagħat ebda traffiku ta' periklu.

(7) Kull persuna għandha taċċetta, bi priorità assoluta u f'kull każ, sejhat u messaġġi ta' periklu gejjin minn fejn gejjin, u għandha twieġeb minnufieh bl-istess mod dawn il-messaġġi u tiehu azzjoni fir-rigward tagħhom skond kif ikun mehtieġ.

**14.** (1) Stazzjonijiet EPIRB għandhom jittrażmettu sejhat ta' allarm ta' periklu fil-faxxa ta' frekwenza 406-406.1 MHz u, jew 156.525 MHz (kanal 70 VHF).

Parametri tekniċi minimi ta' stazzjonijiet EPIRB.

(2) Il-parametri tekniċi minimi ta' stazzjonijiet EPIRB huma daww specifikati fit-Tieni Anness ma' din l-Iskeda.

**15.** (1) L-istazzjonijiet EPIRB kollha għandhom ikunu attivati biss f'każ ta' periklu biex jittrażmettu sejhat ta' allarm ta' periklu.

Mod kif joperaw stazzjonijiet EPIRB.

(2) Jekk għal xi raġuni persuna tattiva stazzjon EPIRB bi żball, dik il-persuna għandha tikkuntattja immedjatament lir-*Rescue Coordination Centre* biex tikkonferma s-sejha ta' allarm ta' periklu.

(3) Stazzjonijiet EPIRB li jittrażmettu fuq il-frekwenza 156.525 MHz għandhom jintużaw biss fuq bastimenti li jkunu qed ibahhru biss fiz-zona tal-baħar A1.

## L-EWWEL ANNESS

(Paragrafu 4 ta' l-Ewwel Skeda)

Tabella tal-frekwenzi VHF

| Channel designator | Transmitting frequencies (MHz) |                     | Inter-ship                                                 | Port operations and ship movement |               | Public correspondence |
|--------------------|--------------------------------|---------------------|------------------------------------------------------------|-----------------------------------|---------------|-----------------------|
|                    | From ship stations             | From coast stations |                                                            | Single frequency                  | Two frequency |                       |
| 60                 | 156.025                        | 160.625             |                                                            |                                   | x             | x                     |
| 01                 | 156.050                        | 160.650             |                                                            |                                   | x             | x                     |
| 61                 | 156.075                        | 160.675             |                                                            | x                                 | x             | x                     |
| 02                 | 156.100                        | 160.700             |                                                            | x                                 | x             | x                     |
| 62                 | 156.125                        | 160.725             |                                                            | x                                 | x             | x                     |
| 03                 | 156.150                        | 160.750             |                                                            | x                                 | x             | x                     |
| 63                 | 156.175                        | 160.775             |                                                            | x                                 | x             | x                     |
| 04                 | 156.200                        | 160.800             |                                                            | x                                 | x             | x                     |
| 64                 | 156.225                        | 160.825             |                                                            | x                                 | x             | x                     |
| 05                 | 156.250                        | 160.850             |                                                            | x                                 | x             | x                     |
| 65                 | 156.275                        | 160.875             |                                                            | x                                 | x             | x                     |
| 06                 | 156.300                        |                     | x                                                          |                                   |               |                       |
| 66                 | 156.325                        | 160.925             |                                                            |                                   | x             | x                     |
| 07                 | 156.350                        | 160.950             |                                                            |                                   | x             | x                     |
| 67                 | 156.375                        | 156.375             | x                                                          | x                                 |               |                       |
| 08                 | 156.400                        |                     | x                                                          |                                   |               |                       |
| 68                 | 156.425                        | 156.425             |                                                            | x                                 |               |                       |
| 09                 | 156.450                        | 156.450             | x                                                          | x                                 |               |                       |
| 69                 | 156.475                        | 156.475             | x                                                          | x                                 |               |                       |
| 10                 | 156.500                        | 156.500             | x                                                          | x                                 |               |                       |
| 70                 | 156.525                        | 156.525             | Digital selective calling for distress, safety and calling |                                   |               |                       |
| 11                 | 156.550                        | 156.550             |                                                            | x                                 |               |                       |
| 71                 | 156.575                        | 156.575             |                                                            | x                                 |               |                       |
| 12                 | 156.600                        | 156.600             |                                                            | x                                 |               |                       |
| 72                 | 156.625                        |                     | x                                                          |                                   |               |                       |
| 13                 | 156.650                        | 156.650             | x                                                          | x                                 |               |                       |
| 73                 | 156.675                        | 156.675             | x                                                          | x                                 |               |                       |
| 14                 | 156.700                        | 156.700             |                                                            | x                                 |               |                       |
| 74                 | 156.725                        | 156.725             |                                                            | x                                 |               |                       |
| 15                 | 156.750                        | 156.750             | x                                                          | x                                 |               |                       |
| 75                 | 156.775                        | 156.775             |                                                            | x                                 |               |                       |
| 16                 | 156.800                        | 156.800             | DISTRESS, SAFETY AND CALLING                               |                                   |               |                       |
| 76                 | 156.825                        | 156.825             |                                                            | x                                 |               |                       |
| 17                 | 156.850                        | 156.850             | x                                                          | x                                 |               |                       |
| 77                 | 156.875                        |                     | x                                                          |                                   |               |                       |
| 18                 | 156.900                        | 161.500             |                                                            | x                                 | x             | x                     |
| 78                 | 156.925                        | 161.525             |                                                            |                                   | x             | x                     |
| 19                 | 156.950                        | 161.550             |                                                            |                                   | x             | x                     |

| I<br><i>Designator</i><br>ta' kanal | Frekwenzi ta'<br>trasmissjoni<br>(MHz) |                                | <i>Inter-ship</i> | Operazzjonijiet portwali<br>u moviment ta' vapuri |                          | Korrispondenza<br>pubblika |
|-------------------------------------|----------------------------------------|--------------------------------|-------------------|---------------------------------------------------|--------------------------|----------------------------|
|                                     | Minn<br>stazzjon<br>ta'<br>bastiment   | Minn stazzjoni<br>fuq il-kosta |                   | <i>Single<br/>frequency</i>                       | <i>Two<br/>frequency</i> |                            |
| 19                                  | 156.950                                | 161.550                        |                   |                                                   | X                        | x                          |
| 79                                  | 156.975                                | 161.575                        |                   |                                                   | X                        | x                          |
| 20                                  | 157.000                                | 161.600                        |                   |                                                   | X                        | x                          |
| 80                                  | 157.025                                | 161.625                        |                   |                                                   | X                        | x                          |
| 21                                  | 157.050                                | 161.650                        |                   |                                                   | X                        | x                          |
| 81                                  | 157.075                                | 161.675                        |                   |                                                   | X                        | x                          |
| 22                                  | 157.100                                | 161.700                        |                   | x                                                 | X                        | x                          |
| 82                                  | 157.125                                | 161.725                        |                   | x                                                 | X                        | x                          |
| 23                                  | 157.150                                | 161.750                        |                   | x                                                 | X                        | x                          |
| 83                                  | 157.175                                | 161.775                        |                   | x                                                 | X                        | x                          |
| 24                                  | 157.200                                | 161.800                        |                   | x                                                 | X                        | x                          |
| 84                                  | 157.225                                | 161.825                        |                   | x                                                 | X                        | x                          |
| 25                                  | 157.250                                | 161.850                        |                   | x                                                 | X                        | x                          |
| 85                                  | 157.275                                | 161.875                        |                   | x                                                 | X                        | x                          |
| 26                                  | 157.300                                | 161.900                        |                   | x                                                 | X                        | x                          |
| 86                                  | 157.325                                | 161.925                        |                   | x                                                 | X                        | x                          |
| 27                                  | 157.350                                | 161.950                        |                   |                                                   | X                        | x                          |
| 87                                  | 157.375                                | 157.375                        |                   | x                                                 |                          |                            |
| 28                                  | 157.400                                | 162.000                        |                   |                                                   | X                        | x                          |
| 88                                  | 157.425                                | 157.425                        |                   | x                                                 |                          |                            |
| AIS 1                               | 161.975                                | 161.975                        |                   |                                                   |                          |                            |
| AIS 2                               | 162.025                                | 162.025                        |                   |                                                   |                          |                            |

### Dispożizzjonijiet speċifiċi

- i. Kanali 06, 16, 70, AIS 1 u AIS 2 jistgħu jintużaw ukoll għal komunikazzjoni bejn stazzjonijiet fuq bastimenti u stazzjonijiet fuq ajruplani li jkunu qeghdin jagħmlu operazzjonijiet koordinati ta' tiftix u salvataġġ u komunikazzjonijiet ohra ta' sigurtà. Stazzjonijiet marittimi ta' bastimenti m'għandhomx jinterferixxu ma' dawn il-komunikazzjonijiet.
- ii. Kanali 15 u 17 jistgħu jintużaw ukoll għal komunikazzjonijiet abbord sakemm l-enerġija radjata effettiva ma taqbiżx 1 W, u, bla ħsara għar-regolamenti nazzjonali ta' l-amministrazzjoni involuta, meta dawn il-kanali jkunu qed jintużaw fl-ibhra territorjali tagħha.
- iii. Kanal 70 għandu jintuża esklussivament għal sejhat *digital selective Calling* f' każ ta' periklu, sigurtà u sejhat.
- iv. Kanal 13 hu maħsub biex jintuża mad-dinja kollha bħala kanal ta' komunikazzjoni għal sigurtà fin-navigazzjoni, primarjament għal komunikazzjonijiet għal sigurtà fin-navigazzjoni bejn bastimenti. Jista' jintuża

wkoll għas-servizz ta' ċaqliq ta' bastimenti u operazzjonijiet portwali bla ħsara għar-regolamenti nazzjonali ta' l-amministrazzjonijiet involuti.

- v. Kanali AIS 1 u AIS 2 jintużaw għal sistema awtomatika ta' identifikazzjoni li hi kapaċi ttiprovdi operazzjoni mad-dinja kollha..
- vi. L-użu tal-kanali 75 u 76 għandu jkun ristrett għal komunikazzjonijiet relatati man-navigazzjoni u għandhom jittieħdu l-prekawzzjonijiet kollha biex tkun evitata interferenza li tagħmel ħsara lil kanal 16, bħal per eżempju billi tillimita l-*output power* għal 1 W jew permezz ta' separazzjoni ġeografika.

# IT-TIENI ANNESS

(Paragrafu 14 ta' l-Ewwel Skeda)

## Parametri Tekniċi Minimi ta' stazzjonijiet EPIRB

### 1. Stazzjonijiet EPIRB li joperaw fil-medda tal-frekwenza 406 MHz

|                                  |                            |
|----------------------------------|----------------------------|
| <i>Operating frequency range</i> | 406.000-406.100 MHz        |
| <i>Designation of Emission</i>   | G1B                        |
| <i>Antenna Polarisation</i>      | <i>Circular jew linear</i> |

### 2. Stazzjonijiet EPIRB li joperaw fuq il-156.525 MHz

|                                |                 |
|--------------------------------|-----------------|
| <i>Operating frequency</i>     | 156.525 MHz     |
| <i>Necessary bandwidth</i>     | < 16 kHz        |
| <i>Designation of Emission</i> | G2B             |
| <i>Antenna Polarisation</i>    | <i>Vertical</i> |

## IT-TIENI SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal *Wireless Access Systems*

1. Din l-Awtorizzazzjoni Ġenerali tapplika għal kull persuna li tixtri, tbigh jew ikollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u thaddem *wireless access system* jew xi apparat mahsub biex jintuża bħala parti komponenti ta' dik is-sistema. Applikabilità tat-Tieni Skeda.

2. F'din l-Iskeda, sakemm ir-rabta tal-kliem ma titlobx mod ieħor: Tifsir.

“banda 2.4 GHz” tfisser il-banda tal-frekwenza 2400-2483.5 MHz;

“banda A 5 GHz” tfisser il-banda tal-frekwenza 5150-5350 MHz;

“banda B 5 GHz” tfisser il-banda tal-frekwenza 5470-5725 MHz; u

“*wireless access systems*” tfisser sistemi tar-radju *wideband* jew *broadband*, inklużi *radio local area networks*, li jippermettu aċċess bla fili għal applikazzjonijiet publiċi u privati indipendentament mit-topoloġija li tirfed in-network.

3. (1) Il-parametri tekniċi minimi ta' *wireless access systems* li joperaw fil-banda 2.4 GHz għandhom ikunu dawk speċifikati fl-Ewwel Anness ma' din l-Iskeda. Parametri tekniċi minimi.

(2) Il-parametri tekniċi minimi ta' *wireless access systems* li joperaw fil-banda A 5 GHz, għandhom ikunu dawk speċifikati fit-Tieni Anness ma' din l-Iskeda.

(3) Il-parametri tekniċi minimi ta' *wireless access systems* li joperaw fil-banda B 5 GHz għandhom ikunu dawk speċifikati fit-Tielet Anness ma' din l-Iskeda.

4. (1) *Wireless access systems* li joperaw fil-banda 2.4 GHz u banda B 5 GHz jistgħu jintużaw f'lokazzjonijiet fuq ġewwa u fuq barra. Lokazzjoni ta' Użu.

(2) *Wireless access systems* li joperaw fil-banda A 5 GHz għandhom jintużaw biss f'lokazzjonijiet fuq ġewwa.

## L-EWWEL ANNESS

(Paragrafu 3 (1) tat-Tieni Skeda)

### Parametri Tekniċi Minimi ta' *Wireless Access Systems* li joperaw fil-banda 2.4 GHz (Mandatorji)

|                                    |                                                                                                                |                                                 |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Operational Frequency Range</b> | 2400 – 2483.5 MHz                                                                                              |                                                 |
| <b>Modulation</b>                  | <i>Frequency hopping, direct sequence spread spectrum</i> jew forom ohra ta' <i>spread spectrum modulation</i> |                                                 |
| <b>Minimum aggregate data rate</b> | 250 kbit/s                                                                                                     |                                                 |
| <b>Maximum Power (e.i.r.p.)</b>    | 100 mW                                                                                                         |                                                 |
| <b>Power Density</b>               | <b><i>Direct Sequence Spread Spectrum</i></b>                                                                  | <b><i>Frequency Hopping Spread Spectrum</i></b> |
|                                    | -20 dBW <i>per</i> 1 MHz                                                                                       | -10 dBW <i>per</i> 1 MHz                        |

### Parametri tekniċi addizzjonali ta' *Wireless Access Systems* li joperaw fil-banda 2.4 GHz (Rakkomandazzjonijiet)

1. L-informazzjoni msemmija f'din it-taqsimha titqies mill-Awtorità b'żjieda mar-rekwiżiti minimi li jridu jkunu osservati fl-ippjanar u l-immaniġġjar ta' l-ispettru tal-frekwenzi f'Malta. Qieghda tigi rakkomandata l-konformità.
2. L-Awtorità tirrakkomanda l-applikazzjoni ta' *standard* armonizzat li ġej biex jintwera li apparat tar-radju jikkonforma mar-rekwiżiti bażiċi li hemm fid-Direttiva 1999/5/KE:
  - EN 300 328 (2003-04), *ETSI Electromagnetic compatibility and Radio spectrum Matters (ERM)*; apparat ta' trasmissjoni tad-data li jopera fil-banda ISM 2.4 GHz u li juża teknika ta' *spread spectrum modulation*; EN armonizzat li jkopri rekwiżiti essenzjali taht l-Artikolu 3(2) tad-Direttiva R&TTE.

## IT-TIENI ANNESS

(Paragrafu 3(2) tat-Tieni Skeda)

Parametri Tekniċi Minimi ta' *Wireless Access Systems*  
li joperaw fil- banda 'A' 5 GHz

| <i>Operational Frequency Range</i>    | 5150 – 5250 MHz                        | 5250 – 5350 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>e.i.r.p. medja massima</b>         | 200 mW                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Densita' ta' e.i.r.p. medja massima   | 10 mW <i>per MHz in any 1 MHz band</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Limitazzjonijiet</b>               | Għal użu fuq ġewwa biss                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Rekwiziti Tekniċi Addizzjonali</b> | -                                      | <p>TPC għandu jintuża biex jipprovdi, fuq linja medja, fattur ta' mitigazzjoni ta' mill-inqas 3 dB fuq il-hruġ massimu permess ta' enerġija li tohroġ mis-sistema. Jekk ma jkunx qed jintuża TPC, il-limitu tal- e.i.r.p. medja massima u l-limitu tal-densita' ta' e.i.r.p. medja għandhom jitnaqqsu bi 3 dB.</p> <p>Sistemi li joperaw fil-banda 5250-5350 MHz għandhom jużaw tekniki ta' mitigazzjoni li mill-inqas jagħtu l-istess protezzjoni li bħal ma hemm deskritti f'EN 301 893 fir-rigward ta' tiftix u tar-rekwiziti operattivi u ta' <i>response</i> biex:</p> <ul style="list-style-type: none"> <li>- jiżguraw operazzjoni kompatibbli mas-sistemi ta' <i>radiodetermination</i>;</li> <li>- jekwalizzaw il-probabbiltà ta' għażla ta' kanal speċifiku għall-kanali kollha aċċessibbli (ara Informazzjoni għat-Tieni u t-Tielet Anness mat-Tieni Skeda) biex jiżguraw, fuq linja medja, firxa uniformi kemm jista' jkun ta' <i>spectrum loading</i>.</li> </ul> |

**Rekwiziti tekniċi addizzjonali ta' *Wireless Access Systems* li joperaw fil- banda 'A' 5 GHz (Rakkomandazzjonijiet)**

1. L-informazzjoni msemmija f'din it-taqsimha titqies mill-Awtorità b'żjieda mar-rekwiziti minimi li jridu jkunu osservati fl-ippjanar u l-immaniġġar ta' l-ispettru tal-frekwenzi f'Malta. Qieghda tigi rakkomandata l-konformità.
2. L-Awtorità tirrakkomanda l-applikazzjoni ta' *standard* armonizzat li ġej biex jintwera li apparat tar-radju jikkonforma mar-rekwiziti bażiċi li hemm fid-Direttiva 1999/5/KE
  - EN 301 893 (2003-08), *ETSI Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN*; EN armonizzat li jkopri rekwiziti essenzjali taht l-Artikolu 3.2 tad-Direttiva R&TTE.

## IT-TIELET ANNESS

(Paragrafu 3(3) tat-Tieni Skeda)

Parametri Tekniċi Minimi ta' *Wireless Access Systems*  
li joperaw fil- banda 'A' 5 GHz

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operational Frequency Band</b>          | 5470 – 5725 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>e.i.r.p. medja massima</b>              | 1 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Densita' ta' e.i.r.p. medja massima</b> | 50 mW per MHz in any 1 MHz band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Rekwiżiti Tekniċi Addizzjonali</b>      | <p>TPC għandu jintuża biex jipprovdi, fuq linja medja, fattur ta' mitigazzjoni ta' mill-inqas 3 dB fuq il-hruġ massimu permess ta' enerġija li tohroġ mis-sistema. Jekk ma jkunx qed jintuża TPC, il-limitu tal-e.i.r.p. medja massima u l-limitu tal-densita' ta' e.i.r.p. medja għandhom jitnaqqsu bi 3 dB.</p> <p>Sistemi għandhom jużaw tekniki ta' mitigazzjoni li mill-inqas jagħtu l-istess protezzjoni li bħal ma hemm deskritti f'EN 301 893 fir-rigward ta' tiftix u tar-rekwiżiti operattivi u ta' <i>response</i> biex:</p> <ul style="list-style-type: none"> <li>- jiżguraw operazzjoni kompatibbli mas-sistemi ta' <i>radiodetermination</i></li> <li>- jekwalizzaw il-probabbiltà ta' għażla ta' kanal speċifiku għall-kanali kollha aċċessibbli (ara Informazzjoni għat-Tieni u t-Tielet Anness mat-Tieni Skeda) biex jiżguraw, fuq linja medja, firxa uniformi kemm jista' jkun ta' <i>spectrum loading</i>.</li> </ul> |

Rekwiżiti tekniċi addizzjonali ta' *Wireless Access Systems* li joperaw fil- banda A 5 GHz  
(Rakkomandazzjonijiet)

1. L-informazzjoni msemmija f'din it-taqsimha titqies mill-Awtorità b'żjieda mar-rekwiżiti minimi li jridu jkunu osservati fl-ippjanar u l-immaniġġjar ta' l-ispettru tal-frekwenzi f'Malta. Qieghda tigi rakkomandata l-konformità.
2. L-Awtorità tirrakkomanda l-applikazzjoni ta' *standard* armonizzat li ġej biex jintwera li apparat tar-radju jikkonforma mar-rekwiżiti bażiċi li hemm fid-Direttiva 1999/5/KE:
  - EN 301 893 (2003-08), *ETSI Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN*; EN armonizzat li jkopri rekwiżiti essenzjali ta' l-Artikolu 3.2 tad-Direttiva R&TTE.

## Informazzjoni ghat-Tieni u t-Tielet Annessi mat-Tieni Skeda

### Allokazzjonijiet ghal *Nominal Carrier Frequency*

| Desinjazzjoni tal-Banda 5 GHz | <i>Carrier centre frequency</i> $f_c$<br>(MHz) |
|-------------------------------|------------------------------------------------|
| A                             | 5180                                           |
| A                             | 5200                                           |
| A                             | 5220                                           |
| A                             | 5240                                           |
| A                             | 5260                                           |
| A                             | 5280                                           |
| A                             | 5300                                           |
| A                             | 5320                                           |
| B                             | 5500                                           |
| B                             | 5520                                           |
| B                             | 5540                                           |
| B                             | 5560                                           |
| B                             | 5580                                           |
| B                             | 5600                                           |
| B                             | 5620                                           |
| B                             | 5640                                           |
| B                             | 5660                                           |
| B                             | 5680                                           |
| B                             | 5700                                           |

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## IT-TIELET SKEDA

## (Regolament 3)

Awtorizzazzjoni Ġenerali għal 24 GHz u 79 GHz Apparat tar-Radjokomunikazzjoni *Automotive Short-Range Radar*

Applikabilità tat-Tielet Skeda.

1. (1) Din l-Awtorizzazzjoni Ġenerali tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat ta' *automotive short-range radar* jew xi apparat mahsub biex jintuza bhala parti komponenti minn dak l-apparat.

Tifsir.

2. F'din l-Iskeda:

“banda 24 GHz” tfisser il-banda ta' frekwenza ta'  $24.15 \pm 2.50$  gigahertz;

“banda 79 GHz” tfisser il-medda ta' frekwenzi bejn 77 u 81 gigahertz;

“apparat ta' *automotive short-range radar*” tfisser apparat li jipprovdi funzjonijiet tar-radar ibbażat fuq vettura tat-triq għal applikazzjonijiet f'każ ta' *collision mitigation* u sigurth tat-traffiku;

“apparat ta' *automotive short-range radar* imdahhal fis-servizz fil-Komunità” tfisser *automotive short-range radar* originarjament stallat jew li ha post wiehed hekk stallat f'vettura li se tkun jew kienet reġistrata, imqieghda fis-suq jew imdahhla fis-servizz fil-Komunità;

Parametri tekniċi minimi.

3. (1) Apparat ta' *automotive short-range radar* għandu jopera fil-bandi ta' l-ispettru tar-radju fil-meded 24 GHz u 79 GHz.

(2) Il-banda ta' l-ispettru tar-radju tal-medda 24 GHz tintuza għall-parti tal-banda *ultra-wide* ta' l-apparat ta' l-*automotive short-range radar* b'densità ta' enerġija medja massima ta'  $-41.3$  dBm/MHz e.i.r.p. u bl-ogħla densità ta' enerġija ta'  $0$  dBm/ 50MHz e.i.r.p., hlief għal frekwenzi taht it-22 GHz, li fihom id-densità ta' enerġija medja massima għandha tkun limitata għal  $-61.3$  dBm/MHz e.i.r.p.

(3) Il-banda ta' l-ispettru tar-radju 24.05-24.25 GHz hi intiża għan-*narrow-band emission mode/component*, li jista' jikkonsisti f'*unmodulated carrier*, bl-ogħla enerġija massima ta'  $20$  dBm e.i.r.p. u *duty cycle* limitat għal 10% fil-każ ta' l-ogħla emissjonijiet li jaqbz u  $-10$  dBm e.i.r.p.

(4) Emissjonijiet fl-ambitu tal-banda 23.6-24.0 GHz li jidhru 30° jew aktar 'il fuq mill-pjan orizzontali ghandhom ikunu mnaqqsa b'mill-inqas 25 dB fil-każ ta' apparat *automotive short-range radar* imqiegħed fis-suq qabel l-2010 u wara b'mill-inqas 30 dB.

(5) Id-densità ta' enerġija medja massima ta' apparat *automotive short-range radar* li jopera fil-banda 79 GHz għandu jkun -3 dBm/MHz e.i.r.p. assoċjat ma' limitu massimu ta' 55 dBm e.i.r.p.

(6) Id-densità ta' enerġija medja massima barra minn vettura li tirriżulta mill-operazzjoni ta' apparat wieħed *automotive short-range radar* li jopera fil-banda 79 GHz m'għandux jaqbeż -9 dBm/MHz e.i.r.p.

**4.** (1) Il-banda 24 GHz għandha tibqa' aċċessibbli għal apparat tar-radjokomunikazzjoni *automotive short-range radar* sat-30 ta' Ġunju 2013. Limitazzjonijiet.

(2) Wara t-30 ta' Ġunju 2013, il-banda 24 GHz ma tibqax aċċessibbli għal apparat tar-radjokomunikazzjoni *automotive short range radar* immuntat fuq xi vettura hlief meta dak l-apparat kien stallat hemm mill-bidu jew ikun qed jiehu post apparat stallat qabel f'vettura reġistrata, imqiegħda fis-suq jew li ddahlet fis-servizz qabel dik id-data fil-Komunità.

(3) Apparat *automotive short-range radar* hekk immuntat fuq vetturi għandu jibqa' jopera biss meta l-vettura tkun attiva.

## IR-RABA' SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal *Non-Specific Short-Range Devices*

Applikabilità tar-Raba' Skeda.

**1.** Din l-Iskeda għandha tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni *non-specific short-range* jew xi apparat maħsub biex jintuża bħala parti komponenti minn dak l-apparat.

Tifsir.

**2.** F'din l-Iskeda:

“DSSS” tfisser *direct sequence spread spectrum*;

“FHSS” tfisser *frequency-hopping spread spectrum*; u

“LBT” tfisser *listen before talk*.

Parametri tekniċi minimi.

**3.** Il-parametri tekniċi minimi ta' apparat tar-radjokomunikazzjoni *non-specific short-range*, li jopera fil-bandi ta' frekwenzi:

- (a) 6765-6795 kHz;
- (b) 13.553-13.567 MHz;
- (c) 26.957-27.283 MHz;
- (d) 40.66-40.70 MHz;
- (e) 138.20-138.45 MHz;
- (f) 433.05-434.79 MHz;
- (g) 863.0-870.0 MHz, hlief 869.2-869.4 MHz u 869.6-869.7 MHz;
- (g1) 868.0-868.6 MHz;
- (g2) 868.7-869.2 MHz;
- (g3) 869.4-869.65 MHz;
- (g4) 869.7-870.0 MHz;
- (h) 2400-2483.5 MHz;
- (i) 5725-5875 MHz; u
- (j) 24.0-24.25 GHz;

għandhom ikunu dawk speċifikati fl-Anness ma' din l-Iskeda.

Limitazzjonijiet.

**4.** Applikazzjonijiet *video* għandhom jintużaw biss fil-bandi ta' frekwenzi deskritti f'(h), (i) u (j) tal-paragrafu 3 ta' din l-Iskeda.

ANNEX  
(Paragrafu 3 tar-Raba' Skeda)  
  
Parametri Tekniċi Minimi ta'  
Non-Specific Short-Range Devices

| Parametri Mandatarji  |                                             |                             |                                              |                                                                               | Parametri Informativi             |                   |
|-----------------------|---------------------------------------------|-----------------------------|----------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|-------------------|
| Banda ta' frekwenza   | Maximum transmit power / Magnetic field     | Duty cycle                  | Channel spacing                              | Power Density                                                                 | Standard (armonizzat) Rakkomandat | Noti              |
| a. 6765-6795 kHz      | 42 dBµA/m meta jilhaq 10 m                  | Ebda restrizzjoni           | Ebda spazjar                                 | -                                                                             | EN 300 330                        |                   |
| b. 13.553-13.567 MHz  | 42 dBµA/m meta jilhaq 10 m                  | Ebda restrizzjoni           | Ebda spazjar                                 | -                                                                             | EN 300 330                        |                   |
| c. 26.957-27.283 MHz  | 10 mW e.r.p. jew 42 dBµA/m meta jilhaq 10 m | Ebda restrizzjoni           | Ebda spazjar                                 | -                                                                             | EN 300 220<br>EN 300 330          |                   |
| d. 40.66-40.70 MHz    | 10 mW e.r.p.                                | Ebda restrizzjoni           | Ebda spazjar                                 | -                                                                             | EN 300 220                        |                   |
| e. 138.20-138.45 MHz  | 10 mW e.r.p.                                | < 1 0 %                     | Ebda spazjar                                 | -                                                                             | EN 300 220                        |                   |
| f. 433.05-434.79 MHz  | 10 mW e.r.p.                                | < 10 %                      | Ebda spazjar                                 | -                                                                             | EN 300 220                        | Nota 4            |
| F1. 433.05-434.79 MHz | 1 mW e.r.p.                                 | sa 100 %                    | Ebda spazjar                                 | -13 dBm/10 kHz għal wideband modulation b' bandwidth li hi aktar minn 250 kHz | EN 300 220                        | Nota 4a           |
| F2. 434.04-434.79 MHz | 10 mW e.r.p.                                | sa 100 %                    | sa 25 kHz                                    | -                                                                             | EN 300 220                        | Nota 4a           |
| g. 863.0-870 MHz      | ≤ 25 mW e.r.p.                              | ≤ 0.1 % jew LBT (noti 1, 5) | ≤ 100 kHz (għal 47 kanal jew aktar) (nota 2) | -                                                                             | EN 300 220                        | Noti 3, 4, 6      |
|                       |                                             |                             |                                              |                                                                               |                                   | Modulazzjoni FHSS |

| Parametri Mandatarji |                                                |                                               |                                                           | Parametri Informativi        |                                          |                                                                      |
|----------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------------------------------------------|
| Banda ta' frekwenza  | <i>Maximum transmit power / Magnetic field</i> | <i>Duty cycle</i>                             | <i>Channel spacing</i>                                    | <i>Power Density</i>         | <i>Standard (armonizzat) Rakkomandat</i> | <i>Noti</i>                                                          |
|                      | ≤ 25 mW e.r.p.<br>(nota 6)                     | ≤ 0.1 % jew LBT<br>(noti 1, 5, 6)             | Ebda spazjar                                              | -4.5 dBm/100 KHz<br>(nota 8) | EN 300 220                               | Noti 3, 4, 6<br>DSSS u <i>wideband modulation</i> oħra minbarra FHSS |
|                      | ≤ 25 mW e.r.p.                                 | ≤ 0.1 % jew LBT<br>(noti 1, 5)                | ≤ 100 KHz<br>(għal kanal wieħed jew aktar)<br>(noti 2, 7) | -                            | EN 300 220                               | Noti 3, 4, 6<br><i>Narrow / wideband modulation</i>                  |
| g1.                  | 868.0-868.6 MHz                                | ≤ 25 mW e.r.p.<br>(nota 1)                    | Ebda spazjar<br>(għal kanal wieħed jew aktar)<br>(nota 2) | -                            | EN 300 220                               | Nota 4<br><i>Narrow / wideband modulation</i>                        |
| g2.                  | 868.7-869.2 MHz                                | ≤ 25 mW e.r.p.<br>≤ 0.1 % jew LBT<br>(nota 1) | Ebda spazjar<br>(għal kanal wieħed jew aktar)<br>(nota 2) | -                            | EN 300 220                               | Nota 4<br><i>Narrow / wideband modulation</i>                        |
| g3.                  | 869.4-869.65 MHz                               | ≤ 500 mW e.r.p.<br>≤ 10 % jew LBT<br>(nota 1) | 25 KHz (għal kanal wieħed jew aktar)                      | -                            | EN 300 220                               | Nota 4<br><i>Narrow / wideband modulation</i>                        |

Ebda spazjar fil-kanal, izda tista' tintuża l-banda tal-frekwenza kollha msemmija tista' tintuża

| Parametri Mandatarji |                                                |                   |                        |                                            | Parametri Informativi                    |                                                                                                                                         |
|----------------------|------------------------------------------------|-------------------|------------------------|--------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Banda ta' frekwenza  | <i>Maximum transmit power / Magnetic field</i> | <i>Duty cycle</i> | <i>Channel spacing</i> | <i>Power Density</i>                       | <i>Standard (armonizzat) Rakkomandat</i> | Noti                                                                                                                                    |
|                      |                                                |                   |                        |                                            |                                          | Il-banda tal-frekwenza kollha msemmija tista' tintuża b'fala kanal 1 għal trażmissjonijiet ta' data b'veloċità għolja                   |
| g4.                  | 869.7-870.0 MHz                                | ≤ 5 mW e.i.r.p.   | sa 100 %               | Ebda spazjar (għal kanal wieħed jew aktar) | EN 300 220                               | Nota 4a<br><i>Narrow / wideband modulation</i><br><br>Ebda spazjar fil-kanal, iżda tista' tintuża l-banda tal-frekwenza kollha msemmija |
|                      |                                                |                   |                        |                                            |                                          |                                                                                                                                         |
| h.                   | 2400.0-2483.5 MHz                              | 10 mW e.i.r.p.    | Ebda restrizzjoni      | Ebda spazjar                               | EN 300 440                               |                                                                                                                                         |
| i.                   | 5725-5875 MHz                                  | 25 mW e.i.r.p.    | Ebda restrizzjoni      | Ebda spazjar                               | EN 300 440                               |                                                                                                                                         |
| j.                   | 24.00-24.25 GHz                                | 100 mW e.i.r.p.   | Ebda restrizzjoni      | Ebda spazjar                               | EN 300 440                               |                                                                                                                                         |

Noti:

1.
- Fil-każ ta' apparat *single frequency agile* japplika l-limitu *duty cycle* għat-trażmissjoni kollha, sakemm ma jintużax LBT. Fil-każ ta' apparat LBT minghajr *frequency agility*, il-limitu tad-*duty cycle* japplika..
2.
- Ic-*channel spacing* preferiti hu 100 kHz li jippermetti suddiviżjoni f'50 kHz, jew 25 kHz.
3.
- Is-sub-bandi 869.2-869.4 MHz u 869.6-869.7 MHz huma esklużi.
4.
- Id-*duty cycle*. LBT jew teknika ekwivalenti m'għandex tiddependi minn min qed juża l-apparat imma għandha għaldaqstant tiġi garantita b'mezzi teknici adegwati. Applikazzjonijiet *audio* huma esklużi. Applikazzjonijiet vokali huma permessi ma' teknici ta' *spectrum access* bħall-LBT jew teknici ekwivalenti, it-trasmettittur għandu jinkludi *power output sensor* li jikkontrolla il-hin ta' trasmissjoni ta' perjodu ta' minuta.
- 4a.
-

5. *Duty cycle* jista' jittella' b'1% jekk il-banda hi limitata ghal 865 – 868 MHz.
6. Ghal modulazzjoni *wide-band* ohra minbarra FHSS u DSSS b'*bandwidth* ta' 200 kHz sa 3 MHz, id-*duty cycle* jista' jittella' ghal 1% jekk il-banda hija limitata ghal 865-868 MHz u l-enerġija ghal  $\leq 10\text{mW}$  erp.
7. Ghal modulazzjoni *narrow-band modulation* ohra b'*bandwidth* ta' 50 kHz sa 200 kHz, il-banda hija limitata ghal 865.5 – 867.5 MHz.
8. Il-*power density* tista' tittella' ghal  $\pm 6.2$  dBm/100 kHz u  $\pm 0.8$  dBm/100 kHz, jekk il-banda ta' operazzjoni hija limitata ghal 865 – 868 MHz u 865 – 870 MHz rispettivament.

## Il-Hames Skeda

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal Apparat ta' Radjokomunikazzjoni maħsub biex jintuża għal *Inductive Applications*

1. Din l-Iskeda għandha tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taħt il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni *short-range* maħsub biex jintuża għal *inductive applications* jew xi apparat maħsub biex jintuża bħala parti komponenti minn dak l-apparat.

Applikabilità tal-Hames Skeda.

2. Il-parametri tekniċi minimi ta' apparat ta' radjokomunikazzjoni *short-range* maħsub biex jintuża għal *inductive applications*, li jopera fil-bandi ta' frekwenzi:

Parametri tekniċi minimi.

- (a) 9-59.75 kHz;
- (b) 59.75-60.25 kHz;
- (c) 60.25-70 kHz;
- (d) 70-119 kHz;
- (e) 119-135 kHz;
- (f) 135-140 kHz;
- (g) 140-148.5 kHz;
- (h) 148.5-5000 kHz;
- (i) 400-600 kHz;
- (j) 3155-3400 kHz;
- (k) 5-30 MHz;
- (l) 6765-6795 kHz;
- (m) 7400-8800 kHz;
- (n1) 13.553-13.567 MHz;
- (n1) 13.553-13.567 MHz;
- (o) 26.957-27.283 MHz; u
- (n) 10.2-11 MHz

għandhom ikunu daww specifikati fl-Anness ma' din l-Iskeda.

3. (1) L-antenni ta' barra ta' apparat ta' radjokomunikazzjoni *short-range* maħsub biex jintuża għal *inductive applications*, li joperaw fil-bandi ta' frekwenzi 2(a), 2(b), 2(c), 2(d), 2(e), 2(f), 2(g), 2(h), 2(i), 2(j) u 2(k), għandhom ikunu biss tat-tip *loop coil*.

Limitazzjonijiet.

(2) Il-*field strength* ta' apparat ta' radjokomunikazzjoni maħsub biex jintuża għal *inductive applications* li joperaw fil-bandi ta'

frekwenci 2(a), 2(b) u 2(c) u li jużaw *loop antennas* b'zona bejn  $0.05\text{m}^2$  u  $0.16\text{m}^2$ , għandha titnaqqas b'  $10 \times \text{Log} (\text{area}/0.16\text{m}^2)$ .

(3) Il-*field strength* ta' *loop antennas* f'zona inqas minn  $0.05\text{m}^2$  u li joperaw fil-bandi ta' frekwenci 2(a), 2(b) u 2(c), għandha titnaqqas b'10 dB.

ANNESS MAL-HAMES SKEDA

(Paragrafu 2 tal-Hames Skeda)

Parametri Tekniċi Minimi għal Apparat ta' Radjokomunikazzjoni *Short-Range*  
mahsub biex jintuża għal *Inductive Applications*

| Banda ta' Frekwenza | Maximum magnetic field       | Duty cycle        | Channel spacing | Standard (armonizzat) rakkomandat (Informattiv) | Rimarki                                                                                                                                                                                                                                                              |
|---------------------|------------------------------|-------------------|-----------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. 9-59.75 kHz      | 72 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      | Field strength level/ li jinżel 3dB/oct meta jilħaq 30 kHz                                                                                                                                                                                                           |
| b. 59.75-60.25 kHz  | 42 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      |                                                                                                                                                                                                                                                                      |
| c. 60.25-70 kHz     | 69 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      | Field strength level/ li jinżel 3dB/oct meta jilħaq 30 kHz                                                                                                                                                                                                           |
| d. 70-119 kHz       | 42 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      |                                                                                                                                                                                                                                                                      |
| e. 119-135 kHz      | 66 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      | Field strength level/ li jinżel 3dB/oct meta jilħaq 30 kHz                                                                                                                                                                                                           |
| f. 135-140 kHz      | 42 dBµA/m meta jilħaq 10 m   | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      |                                                                                                                                                                                                                                                                      |
| g. 140-148.5 kHz    | 37.7 dBµA/m meta jilħaq 10 m | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      |                                                                                                                                                                                                                                                                      |
| h. 148.5-5000 kHz   | -15 dBµA/m meta jilħaq 10 m  | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                      | Il-field strength massimu hu speċifikat f'bandwidth ta' 10 kHz. Il-field strength massimu totali permess hu -5dBµA/m at 10m fil-każ ta' sistemi li joperaw f'bandwidths akbar minn 10 kHz filwaqt li jzommu l-limitu ta' densità (-15dBµA/m f'bandwidth ta' 10 kHz). |
| i. 400-600 kHz      | -8 dBµA/m meta               | Ebda              | Ebda            | EN 300 330                                      | Għal użu RFID biss.                                                                                                                                                                                                                                                  |

| Banda ta' Frekwenza   | Maximum magnetic field     | Duty cycle        | Channel spacing | Standard (armonizzat) rakkomandat (Informativ) | Rimarki                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|----------------------------|-------------------|-----------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | jilħaq 10 m                | restrizzjoni      | spazjar         |                                                | Il-field strength massimu hu speċifikat <i>f'bandwidth</i> ta' 10 kHz. Il-field strength massimu totali permess hu -5dBµA/m at 10m fil-każ ta' sistemi li joperaw <i>f'bandwidths</i> akbar minn 10 kHz. filwaqt li jzommu l-limitu ta' densità (-8dBµA/m <i>f'bandwidth</i> ta' 10 kHz).<br>Sistemi għandhom joperaw <i>b'bandwidth</i> minima ta' 30 kHz. |
| j. 3155-3400 MHz      | 13.5 dBµA/m at 10 m        | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |
| k. 5-30 MHz           | -20 dBµA/m at 10 m         | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     | Il-field strength massimu hu speċifikat <i>f'bandwidth</i> ta' 10 kHz. Il-field strength massimu totali permess hu -5dBµA/m at 10m fil-każ ta' sistemi li joperaw <i>f'bandwidths</i> akbar minn 10 kHz filwaqt li jzommu l-limitu ta' densità (-20dBµA/m <i>f'bandwidth</i> ta' 10 kHz).                                                                   |
| l. 6765-6795 kHz      | 42 dBµA/m meta jilħaq 10 m | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |
| m. 7400-8800 kHz      | 9 dBµA/m meta jilħaq 10 m  | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |
| n1. 13.553-13.567 MHz | 42 dBµA/m meta jilħaq 10 m | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |
| n2. 13.553-13.567 MHz | 60 dBµA/m meta jilħaq 10 m | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     | Għal RFID u EAS.                                                                                                                                                                                                                                                                                                                                            |
| o. 26.957-27.283 MHz  | 42 dBµA/m meta jilħaq 10 m | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |
| p. 10.2-11 MHz        | 9 dBµA/m meta jilħaq 10 m  | Ebda restrizzjoni | Ebda spazjar    | EN 300 330                                     |                                                                                                                                                                                                                                                                                                                                                             |

## IS-SITT SKEDA

### (Regolament 3)

#### **Awtorizzazzjoni Ġenerali għal Apparat ta' Radjokomunikazzjoni li jikxef Ċaqliq u Alert**

**1.** Din l-Iskeda għandha tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni li jikxef ċaqliq u *alert*, jew xi apparat mahsub biex jintuza bħala parti komponenti minn dak l-apparat.

Applikabilità tas-Sitt Skeda.

**2.** Il-parametri tekniċi minimi ta' apparat ta' radjokomunikazzjoni li jikxef ċaqliq u *alert*, li jopera fil-bandi ta' frekwenzi:

Parametri tekniċi minimi.

- (a) 2400-2483.5 MHz;
- (b) 9200-9500 MHz;
- (c) 9500-9975 MHz;
- (d) 10.5-10.6 GHz;
- (e) 13.4-14.0 GHz; u
- (f) 24.05-24.25 GHz;

għandhom ikunu daww specifikati fl-Anness ma' din l-Iskeda.

## ANNEX MAS-SITT SKEDA

(Paragrafu 2 tas-Sitt Skeda)

**Parametri Tekniċi Minimi għal Apparat ta' Radjokomunikazzjoni  
li Jikxef Caqliq u Alert**

| <b>Banda ta' frekwenza</b> |                 | <b><i>Maximum<br/>transmit power</i></b> | <b><i>Duty<br/>cycle</i></b> | <b><i>Channel<br/>spacing</i></b> | <b><i>Standard (armonizzat)<br/>rakkomandat<br/>(Informattiv)</i></b> |
|----------------------------|-----------------|------------------------------------------|------------------------------|-----------------------------------|-----------------------------------------------------------------------|
| a.                         | 2400-2483.5 MHz | 25 mW e.i.r.p.                           | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |
| b.                         | 9200-9500 MHz   | 25 mW e.i.r.p.                           | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |
| c.                         | 9500-9975 MHz   | 25 mW e.i.r.p.                           | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |
| d.                         | 10.5-10.6 GHz   | 500 mW e.i.r.p.                          | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |
| e.                         | 13.4-14.0 GHz   | 25 mW e.i.r.p.                           | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |
| f.                         | 24.05-24.25 GHz | 100 mW e.i.r.p.                          | Ebda<br>restrizzjoni         | Ebda<br>spazjar                   | EN 300 440                                                            |

## IS-SEBA' SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal Apparat ta' Radjokomunikazzjoni *Model Control*

**1.** Din l-Iskeda għandha tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni *model control* jew xi apparat maħsub biex jintuza bħala parti komponenti minn dak l-apparat.

Applikabilità tas-Seba' Skeda.

**2.** Il-parametri tekniċi minimi ta' apparat ta' radjokomunikazzjoni *model control*, li joperaw fil-bandi ta' frekwenzi:

Parametri tekniċi minimi.

- (a) 26.995, 27.045, 27.095, 27.145, 27.195 MHz;
- (b) 34.995-35.225 MHz; u
- (c) 40.665, 40.675, 40.685, 40.695 MHz;

għandhom ikunu dawk speċifikati fl-Anness ma' din l-Iskeda.

**3.** Apparat *model control* li jopera fil-faxxa ta' frekwenza f'<sup>2</sup>(b) għandu jkun ristrett għal mudelli li jtiru biss.

Limitazzjonijiet.

# **ANNEX MAS-SEBA' SKEDA**

(Paragrafu 2 tas-Seba' Skeda)

## **Parametri Tekniċi Minimi ta' Apparat tar-Radjokomunikazzjoni *Model Control***

| <b>Banda ta' frekwenza</b> |                                                        | <b><i>Maximum Transmit Power</i></b> | <b><i>Duty cycle</i></b> | <b><i>Channel spacing</i></b> | <b>Standard (armonizzat) rakkomandat (Informattiv)</b> | <b>Kummenti</b>          |
|----------------------------|--------------------------------------------------------|--------------------------------------|--------------------------|-------------------------------|--------------------------------------------------------|--------------------------|
| a.                         | 26.995,<br>27.045,<br>27.095,<br>27.145,<br>27.195 MHz | 100 mW e.r.p.                        | Ebda restrizzjoni        | 10 kHz                        | EN 300 220                                             | -                        |
| b.                         | 34.995-35.225 MHz                                      | 100 mW e.r.p.                        | Ebda restrizzjoni        | 10 kHz                        | EN 300 220                                             | Għal mudelli li jgħid li |
| c.                         | 40.665,<br>40.675,<br>40.685,<br>40.695 MHz            | 100 mW e.r.p.                        | Ebda restrizzjoni        | 10 kHz                        | EN 300 220                                             | -                        |

## IT-TMIEN SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal Sistemi ta' Allarmi Bla Fili

**1.** Din l-Iskeda tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera sistemi ta' allarm bla fili inklużi allarmi soċjali u allarmi għal sigurtà jew xi apparat mahsub biex jintuża bħala parti komponenti ta' dik is-sistema.

Applikabilità tat-Tmien Skeda.

**2.** Il-parametri tekniċi minimi tas-sistema ta' allarm bla fili, li joperaw fil-bandi ta' frekwenzi:

Parametri tekniċi minimi.

- (a) 169.4750-169.4875 MHz;
- (b) 169.5875-169.6 MHz;
- (ċ) 868.6-868.7 MHz;
- (d) 869.25-869.30 MHz;
- (e) 869.65-869.7 MHz;
- (f) 869.2-869.25 MHz; u
- (g) 869.3-869.4 MHz;

għandhom ikunu dawk speċifikati fl-Anness ma' din l-Iskeda.

**3.** L-użu tal-bandi f'2(a), 2(b) u 2(f) b'sistemi ta' allarmi bla fili għandhom ikunu ristretti għal allarmi soċjali biss.

Limitazzjonijiet.

# ANNEX MAT-TMIEN SKEDA

(Paragrafu 2 tat-Tmien Skeda)

## Parametri Tekniċi Minimi ta' Sistemi ta' Allarm bla Fili

| Banda ta' Frekwenza |                       | Maximum transmit power | Duty cycle | Channel spacing | Standard (armonizzat) rakkomandat (Informattiv) | Noti (Informattivi)                                                                                                      |
|---------------------|-----------------------|------------------------|------------|-----------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| a.                  | 169.4750-169.4875 MHz | 10 mW e.r.p.           | < 0.1 %    | 12.5 kHz        | EN 300 220                                      | Allarmi soċjali                                                                                                          |
| b.                  | 169.5875-169.6 MHz    | 10 mW e.r.p.           | < 0.1 %    | 12.5 kHz        | EN 300 220                                      | Allarmi soċjali                                                                                                          |
| c.                  | 868.6-868.7 MHz       | 10 mW e.r.p.           | < 1.0 %    | 25 kHz          | EN 300 220                                      | Il-banda ta' frekwenza kollha tista' tintuża wkoll bħala kanal 1 fil-każ ta' trażmissjonijiet ta' data b'veloċità għolja |
| d.                  | 869.25-869.30 MHz     | 10 mW e.r.p.           | < 0.1 %    | 25 kHz          | EN 300 220                                      | -                                                                                                                        |
| e.                  | 869.65-869.7 MHz      | 25 mW e.r.p.           | < 10 %     | 25 kHz          | EN 300 220                                      | -                                                                                                                        |
| f.                  | 869.2-869.25 MHz      | 10 mW e.r.p.           | < 0.1 %    | 25 kHz          | EN 300 220                                      | Allarmi soċjali                                                                                                          |
| g.                  | 869.3-869.4 MHz       | 10 mW e.r.p.           | < 1.0 %    | 25 kHz          | EN 300 220                                      | -                                                                                                                        |

## ID-DISA' SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal Sistemi *Audio* Minghajr Fili

**1.** Din l-Iskeda tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taħt il-kontroll tagħha, jew li tistalla u topera sistemi *audio* minghajr fili jew xi apparat maħsub biex jintuża bħala parti komponenti ta' dik is-sistema. Applikabilità tad-Disa' Skeda.

**2.** Il-parametri tekniċi minimi ta' sistemi *audio* minghajr fili, li joperaw fil-bandi ta' frekwenzi: Parametri tekniċi minimi.

- (a) 87.5-108 MHz;
- (b) 863-865 MHz;
- (ċ) 864.8-865.0 MHz; u
- (d) 1795-1800 MHz;

għandhom ikunu dawk speċifikati fl-Anness ma' din l-Iskeda.

**3.** (1) L-użu tal-banda f'paragrafu 2 (ċ) ta' din l-Iskeda minn sistemi *audio* minghajr fili għandu jkun ristrett għal apparat *narrow band analogue voice* biss. Limitazzjonijiet.

(2) Sistemi *audio* minghajr fili li joperaw fil-bandi ta' frekwenzi fil-paragrafu 2 ta' din l-Iskeda m'għandhomx jittrasmettu *radio frequency carrier* meta ma jkunux qed jintużaw.

# ANNESS GHAD-DISA' SKEDA

(Paragrafu 2 tad-Disa' Skeda)

## Parametri Tekniċi Minimi ta' Sistemi *Audio* MinghajrFili

| Banda ta' frekwenza |                 | <i>Maximum transmit power</i> | <i>Duty cycle</i> | <i>Channel spacing</i> | <i>Standard (armonizzat) rakkomandat (Informattiv)</i> | Noti (Informattivi)                            |
|---------------------|-----------------|-------------------------------|-------------------|------------------------|--------------------------------------------------------|------------------------------------------------|
| a.                  | 87.5-108 MHz    | 50 nW e.r.p.                  | sa' 100 %         | 200 kHz                | EN 301 357                                             | -                                              |
| b.                  | 863-865.0 MHz   | 10 mW e.r.p.                  | sa' 100 %         | Ebda spazjar           | EN 300 220                                             | -                                              |
| c.                  | 864.8-865.0 MHz | 10 mW e.r.p.                  | sa' 100 %         | 50 kHz                 | EN 301 357                                             | Apparat <i>narrow band analogue voice</i> biss |
| d.                  | 1795-1800 MHz   | 20 mW e.i.r.p.                | sa' 100 %         | Ebda spazjar           | EN 301 357                                             | -                                              |

## L-GHAXAR SKEDA

### (Regolament 3)

#### Awtorizzazzjonijġi Ġenerali għal Apparat DECT *User Terminal*

**1.** (1) Din l-Iskeda tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taħt il-kontroll tagħha, jew li tistalla u topera apparat DECT *user terminal* jew xi apparat mahsub biex jintuża bħala parti komponenti minn dak l-apparat. Applikabilità ta' l-Għaxar Skeda.

(2) F'din l-Iskeda "DECT" tfisser *digital enhanced cordless telecommunications*.

**2.** Il-parametri tekniċi minimi ta' apparat DECT *user terminal* li jopera fil-banda ta' frekwenza 1800-1900 MHz għandhom ikunu daww specifikati fl-Anness ma' din l-Iskeda. Parametri tekniċi minimi.

## ANNESS MA' L-GHAXAR SKEDA

(Paragrafu 2 ta' l-Għaxar Skeda)

**Parametri Tekniċi Minimi ta' apparat *DECT user terminal***

|                                                                |                                                                   |
|----------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Banda ta' frekwenza</b>                                     | 1800-1900 MHz                                                     |
| <b><i>Maximum Transmit Power</i></b>                           | 250 mW <i>peak e.r.p.</i><br>( <i>peak power over time-slot</i> ) |
| <b><i>Channel Separation</i></b>                               | 1728 kHz                                                          |
| <b><i>Type of Modulation</i></b>                               | <i>Gaussian Minimum Shift Keying (GMSK)</i>                       |
| <b><i>Transmission Capacity</i></b>                            | 1152 kbit/s <i>per carrier</i>                                    |
| <b>Standard (armonizzat)<br/>rakkomandat<br/>(Informattiv)</b> | EN 301 406                                                        |

## IL-~~H~~DAX-IL SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal

#### Apparat ta' Radjokomunikazzjoni *Analogue* PMR 446

**1.** (1) Din l-Iskeda tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni PMR 446 jew xi apparat mahsub biex jintuża bħala parti komponenti minn dak l-apparat. Applikabilità tal-Hdax-il Skeda.

(2) F'din l-Iskeda “apparat tar-radjokomunikazzjoni PMR 446” tfisser apparat tar-radjokomunikazzjoni vokali *short range* mahsub biex jopera fuq frekwenzi kollettivi li jintużaw minn hafna utenti fuq bażi mhux koordinata.

**2.** Il-parametri tekniċi minimi ta' apparat tar-radjokomunikazzjoni *analogue* PMR 446 għandhom ikunu daww Parametri tekniċi minimi. speċifikati fl-Anness ma' din l-Iskeda.

**3.** Apparat tar-radjokomunikazzjoni PMR 446 għandu juża biss Limitazzjonijiet. antenni integrali.

ANNESS MAL-~~H~~DAX-IL SKEDA(Paragrafu 2 tal-~~H~~dax-il Skeda)**Parametri Tekniċi Minimi ta' apparat  
tar-Radjokomunikazzjoni *Analogue* PMR 446**

|                                                                       |                   |
|-----------------------------------------------------------------------|-------------------|
| <b>Banda ta' frekwenza</b>                                            | 446.00-446.10 MHz |
| <b><i>Maximum Transmit Power</i></b>                                  | 500 mW e.r.p.     |
| <b><i>Channel Separation</i></b>                                      | 12.5 kHz          |
| <b><i>Standard</i> (armonizzat)<br/>rakkomandat<br/>(Informattiv)</b> | EN 300 296        |

## IT-TNAX-IL SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal apparat li juża teknoloġija *ultra-wideband*

1. Din l-Iskeda tapplika għal kull persuna li tixtri, tbigh jew li jkollha fil-pussess jew taht il-kontroll tagħha, jew li tistalla u topera apparat tar-radjokomunikazzjoni li juża teknoloġija *ultra-wideband* jew xi apparat mahsub biex jintuża bħala parti komponenti minn dak l-apparat.

Applikabilità tat-Tnax-il Skeda.

2. F'din l-Iskeda, sakemm ir-rabta tal-kliem ma titlobx mod iehor:

Tifsir.

“Apparat li juża teknoloġija *ultra-wideband*” tfisser apparat li jinkorpora, bħala parti integrali jew bħala aċċessorju, teknoloġija għal radjokomunikazzjoni *short-range*, li tinvolvi l-ġenerazzjoni u t-trażmissjoni ta' enerġija ta' frekwenzi tar-radju li tinfirex fuq medda ta' frekwenzi usa' minn 50 MHz, li tista tkun imrikkba fuq diversi medded ta' frekwenzi allokat għal servizzi ta' radjokomunikazzjoni;

“ġewwa” tfisser fuq ġewwa ta' binjiet jew postijiet li fihom l-ilqugh tipikament jipprovdi t-tnaqqis mehtieg biex jipprotegi servizzi tar-radju kontra interferenza li tagħmel hsara.

3. Apparat li juża teknoloġija *ultra-wideband* għandu jkun konformi mal-kundizzjonijiet imnizzlin fl-Anness ma' din l-Iskeda.

Parametri tekniċi minimi.

4. Apparat kopert taht din l-Iskeda għandu jew jintuża ġewwa jew, jekk jintuża barra ma jkunx imqabba ma' stallazzjoni fissa, ma' infrastruttura fissa, ma' antenna fissa fuq barra, jew ma vettura awtomotiva.

Limitazzjonijiet.

## ANNESS MAT-TNAX-IL SKEDA

(Paragrafu 3 tat-Tnax-il Skeda)

Parametri teknici minimi ta' apparat li juza Teknoloġija *Ultra-Wideband*

## 1. Densitajiet massimi ta' e.i.r.p. fin-nuqqas ta' teknici ta' mitigazzjoni xierqa

| Medda ta' frekwenza (GHz) | Densità ta' e.i.r.p. medja massima (dBm/MHz)                                    | Densità ta' e.i.r.p. l-oghla massimu (dBm/MHz)                                  |
|---------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| anqas minn 1.6 GHz        | -90.0                                                                           | -50.0                                                                           |
| 1.6 to 3.4                | -85.0                                                                           | -45.0                                                                           |
| 3.4 to 3.8                | -85.0                                                                           | -45.0                                                                           |
| 3.8 to 4.2                | -70.0                                                                           | -30.0                                                                           |
| 4.2 to 4.8                | -41.3<br>(sal-31 ta' Diċembru 2010)<br><br>-70<br>(wara l-31 ta' Diċembru 2010) | 0.0<br>(sal-31 ta' Diċembru 2010)<br><br>-30.0<br>(wara l-31 ta' Diċembru 2010) |
| 4.8 to 6.0                | -70.0                                                                           | -30.0                                                                           |
| 6.0 to 8.5                | -41.3                                                                           | 0.0                                                                             |
| 8.5 to 10.6               | -65.0                                                                           | -25.0                                                                           |
| ‘il fuq minn 10.6         | -85.0                                                                           | -45.0                                                                           |

## 2. Tekniki ta' mitigazzjoni xierqa

Medja massima ta' Densità ta' e.i.r.p. ta' -41.3 dBm/MHz hija permessa fil-meded ta' 3.4 - 4.8 GHz sakemm tiġi applikata restrizzjoni hija applikata fejn is-somma tas-sinjali kollha trażmessi tkun anqas minn 5% tal-ħin kull sekonda u anqas minn 0.5% tal-ħin kull siegħa, u sakemm kull sinjal trażmess ma jaqbiżx il-5 millisekondi.

Apparat li juża' t-teknoloġija *ultra-wideband* jista' jkun permess juża *spectrum* ta' frekwenzi tar-radju b'limiti ta' e.i.r.p. barra minn dawk li hemm fit-tabella fil-punt 1, sakemm tekniki ta' mitigazzjoni xierqa barra minn dawk fl-ewwel subparagrafu jkun applikati, bir-riżultat li l-apparat jilhaq tal-anqas livell ta' protezzjoni ekwivalenti għal dak provdut mill-limiti tat-tabella fil-punt 1.

## IT-TLETTAX-IL SKEDA

### (Regolament 3)

#### **Awtorizzazzjoni Ġenerali għal apparat ta' *Radio Frequency Identification* (RFID) li jopera fil-banda *ultra high frequency* (UHF)**

1. Din l-iskeda tapplika għal kull persuna li tbiegh, tixtri jew għandha fil-pussess tagħha jew taht il-kontroll tagħha, jew li tkun qegħda tistalla jew topera apparat ta' *radio frequency identification* jew xi apparat mahsub biex jintuża bhala parti komponenti minn dak l-apparat. Applikabilità tat-Tleltax-il Skeda.
2. Il-parametri tekniċi minimi ta' apparat RFID għandhom ikunu dawk speċifikati fl-Anness ma' din l-Iskeda. Parametri tekniċi minimi.

## ANNESS MAT-TLETTAX-IL SKEDA

## (Paragrafu 3 tat-Tleltax-il Skeda)

## Parametri teknici minimi ta' apparat RFID li jopera fil-banda UHF

| Banda UHF                     | Kondizzjonijiet specifici |                        | Numri ta' Channels disponibli |
|-------------------------------|---------------------------|------------------------|-------------------------------|
|                               | <i>Maximum Power</i>      | <i>Channel Spacing</i> |                               |
| Sub-banda A : 865-865.6 MHz   | 100 mW e.r.p.             | 200 kHz                | 1 to 3                        |
| Sub-banda B : 865.6-867.6 MHz | 2 W e.r.p.                | 200 kHz                | 4 to 13                       |
| Sub-banda C : 867.6-868 MHz   | 500 mW e.r.p.             | 200 kHz                | 14 to 15                      |

*Channel centre frequencies huma  $864.9 \text{ MHz} + (0.2 \text{ MHz} * \text{channel number})$*

## L-ERBATAX-IL SKEDA

### (Regolament 3)

#### Awtorizzazzjoni Ġenerali għal Apparat ta' Radjokomunikazzjoni għal *tracking, tracing* u *data acquisition*

1. Din l-iskeda tapplika għal kull persuna li tbiegħ, tixtri jew għandha fil-pussess tagħha jew taht il-kontroll tagħha, jew li tkun qegħda tistalla jew topera apparat ta' radjokomunikazzjoni għal *tracking, tracing* u *data acquisition* jew xi apparat mahsub biex jintuża bħala parti komponenti minn dak l-apparat. Applikabilità ta' l-Erbatax-il Skeda.
2. Il-parametri teknici minimi ta' apparat ta' radjokomunikazzjoni għal *tracking, tracing* u *data acquisition* għandhom ikunu daww speċifikati fl-Anness ma' din l-Iskeda. Parametri teknici minimi.

## ANNEX MAL-ERBATA-X-IL SKEDA

## (Paragrafu 3 tal-Erbghatax-il Skeda)

Parametri teknici minimi ta' apparat ta' radjokomunikazzjoni għal  
*tracking, tracing u data acquisition*

| Banda ta' Frekwenza |                   | <i>Maximum transmit power / Magnetic field</i> | <i>Duty cycle</i> | <i>Maximum Channel spacing</i> | <i>Standard (armonizzat) rakkomandat (Informattiv)</i> | <i>Noti (Informattivi)</i> |
|---------------------|-------------------|------------------------------------------------|-------------------|--------------------------------|--------------------------------------------------------|----------------------------|
| a.                  | 169.4-169.475 MHz | 500 mW e.r.p.                                  | <10 %             | 50 kHz                         | EN 300 220                                             | Qari ta' meters            |
| b.                  | 169.4-169.475 MHz | 500 mW e.r.p.                                  | <1 %              | 50 kHz                         | EN 300 220                                             | Asset tracking u tracing   |

Provided that a person shall in all instances comply with any requirements stated in the Act and, or in these regulations as may apply to the radiocommunications apparatus covered by a general authorization under these regulations.

**4.** (1) Any person enjoying a general authorisation for any radiocommunications apparatus to which these regulations apply, shall comply at all times with any decisions, however so described, taken by the Minister in relation to harmful interference and shall ensure that any such radiocommunications apparatus at all times complies with the applicable standards and is operated in accordance with the applicable conditions in order to ensure that such an operation does not cause harmful interference to other radiocommunications apparatus.

Harmful interference.

(2) The use of the radiocommunications apparatus for which these regulations apply, is on a non-interference and non-protected basis.

(3) Any person enjoying a general authorisation for any radiocommunications apparatus to which these regulations apply, shall not hold the minister responsible, and where applicable the Authority and, or any other competent public authority for any alleged harmful interference received from other radiocommunications apparatus.

**5.** No person shall transmit or circulate false or deceptive distress, urgency, safety or identification signals.

Transmission or circulation of false or deceptive distress signals etc.

**6.** (1) Nothing under these regulations shall absolve any person from any requirement to obtain any other permits, authorisations or licences, however so described, as may be necessary under any other law affecting the installation and, or operation of a radiocommunications apparatus to which these regulations apply.

Requirement to abide with any requirements under any other laws etc.

(2) Nothing in these regulations shall be construed as exempting or absolving any person to comply with any other laws or any decisions, however so described, that the Minister may from time to time issue.

**7.** All radiocommunications apparatus covered by a general authorization under these regulations shall be compliant with the provisions of the R&TTE Regulations unless otherwise stated in the general authorisation applicable to that radiocommunications apparatus.

Compliance with apparatus specifications and standards.

**8.** The Minister may require any person to provide him with any information regarding any radiocommunications apparatus in the

Provision of information.

possession of or used by that person in relation to which apparatus a general authorization under these regulations applies.

Inspections.

**9.** An authorized officer may inspect radiocommunications apparatus covered by a general authorization under these regulations to ensure compliance with these regulations.

## **FIRST SCHEDULE**

### **(Regulation 3)**

#### **General Authorisation for Maritime VHF and EPIRB Ship Stations**

Applicability of  
First Schedule.

**1.** This General Authorisation applies to any person buying, selling or having in his possession or under his control, or installing and operating a maritime ship station, or any apparatus intended to be used as a component part of such station on board a ship registered under the Merchant Shipping Act and, or the Fisheries Conservation and Management Act.

Cap. 234.

Cap. 425.

Interpretation.

**2.** In this Schedule unless the context otherwise requires:

“Department of Fisheries” means the Fisheries Conservation and Control Division (FCCD), or any other competent authority responsible for the registration of fishing vessels;

“digital selective calling” or “DSC” means a technique using digital codes which enables a radio station to establish contact with, and transfer information to, another station or group of stations, and complying with the relevant recommendations of the International Telecommunication Union (ITU) radiocommunications sector;

“emergency position-indicating radiobeacon station” or “EPIRB station” means a station in the mobile service the emissions of which are intended to facilitate search and rescue operations;

“maritime mobile service identity number” or “MMSI number” means a unique 9-digit number that identifies a ship fitted with DSC, which number is issued by the Malta Maritime Authority or by any other competent authority;

“Maritime Ship Station” or “VHF station” means a maritime ship radiocommunications transceiver that operates, unless stated otherwise, on the VHF frequencies;

“private frequency” means a frequency which has been assigned on an exclusive or shared basis to an individual or company and which frequency is not in accordance with the VHF frequencies;

“Registrar-General” means the Registrar-General of Shipping and Seamen as provided under the Merchant Shipping Act, and includes any person acting under his authority; Cap. 234.

“Rescue Coordination Centre” means the Armed Forces of Malta, Luqa Barracks, Luqa, Malta or any other competent authority which is responsible for the coordination of maritime search and rescue operations;

“safety” means the transmission of an important navigational or meteorological warning by means of the VHF station;

“sea area A1” means an area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available;

“ship” means every description of vessel used in navigation, whether self propelled or not, and includes barges, pontoons and oil rigs and other similar vessels, and for those Parts of the Act wherever applicable it shall also include a ship under construction;

“territorial waters” means all parts of the open sea within twelve nautical miles of the coast of Malta, or such other distance as may be established under article 3 of the Territorial Waters and Contiguous Zone Act, measured as provided in that Act, and includes any waters enclosed between the base lines therein mentioned and the coast; Cap. 226.

“VHF frequencies” means the radio frequencies stated in the First Annex to the First Schedule to these Regulations.

**3.** Unless otherwise required by the Authority, a VHF station which enjoyed a valid radiocommunications licence however so described prior to the coming into force of these regulations is exempt from the requirement to be compliant with the provisions of the R&TTE Regulations. R&TTE Regulations.

**4.** Maritime ship stations operating in territorial waters must be capable of operating only on any of the VHF frequencies specified in the First Annex to this Schedule and shall not use any other frequency and, or channel: Operating Frequencies of the maritime ship stations.

Provided that a person who has been assigned a private frequency may also operate a maritime ship station covered by this General Authorisation on that frequency:

Cap. 35.                      Provided further that a person who has been assigned a private frequency shall pay any applicable fees under the Fees Ordinance or any other law in force.

Location of station.                      **5.** A person shall not install and, or operate a maritime ship station on land:

Provided that a public authority may install a maritime ship station on land if so authorised by the Authority.

Operation of the maritime ship station.                      **6.** (1) Without prejudice to any other requirements at law a person shall, whether within or outside territorial waters, only operate a maritime ship station in accordance with the provisions of the Radio Regulations.

(2) Except in the case of search and rescue communications, a person shall not operate a maritime ship station unless that person:

(a) is qualified to operate such a station, or

(b) is operating such a station under the supervision of a person who is qualified to operate such a station.

Qualifications to operate a maritime ship station.                      **7.** A person is qualified to operate a maritime ship station if he holds, as a minimum, a short range certificate (SRC) issued by the Registrar-General, or holds a qualification recognised by the Malta Maritime Authority as being equivalent to a short range certificate:

Provided that any such certificate or qualification shall be available for inspection on the demand of any authorized officer at all times when the maritime ship station is installed on board a ship or when the maritime ship station is being operated.

Responsibility for maritime ship stations.                      **8.** Any person under whose name a ship is registered with the Malta Maritime Authority or with the Department of Fisheries, shall be responsible for any maritime ship station registered for operation on board that ship and for any other maritime ship station found to be installed or in operation on board that ship.

Registration of maritime ship stations.                      **9.** Any maritime ship station fitted with DSC and EPIRB station shall be registered with the Malta Maritime Authority or with any other

competent authority as the Authority may consider appropriate in the circumstances:

Provided that the registration of any such stations which are to be operated on board a ship, shall be made by the person under whose name that ship is registered with the Malta Maritime Authority or with the Department of Fisheries as the case may be or by his authorised representative.

**10.** (1) Any person enjoying a general authorisation in accordance with this Schedule shall ensure that any maritime ship station and EPIRB station operating under such a general authorisation, are assigned a call sign by the Malta Maritime Authority or with any other competent authority as the Authority may consider appropriate, which call sign shall only be used on the ship on which it is registered. Call signs.

(2) The call sign shall remain with the ship for the duration of its life regardless of changes of ownership or of ship name.

(3) Call signs are not transferable between ships.

(4) A person operating a maritime ship station shall use the call sign assigned to the ship from which the maritime ship station is being operated at the start of each transmission, or series of transmissions.

**11.** (1) Any person enjoying a general authorisation under this Schedule shall ensure that a maritime ship station fitted with DSC, is assigned an MMSI number by the Malta Maritime Authority or any other competent authority as the Authority may consider appropriate: MMSI numbers.

Provided that such a person shall also ensure that a maritime ship station is programmed with the assigned MMSI number.

(2) MMSI numbers are not transferable between ships.

(3) A person possessing an EPIRB station shall ensure that:

(a) such station is only used on board a ship;

(b) such station is registered with the Malta Maritime Authority or the Department of Fisheries; and

(c) any EPIRB station if fitted or carried on board a ship shall be programmed with the MMSI number of that ship as

assigned by the Malta Maritime Authority or with any other competent authority as the Authority may consider appropriate.

Transfer of VHF or EPIRB stations.

**12.** A person transferring a DSC enabled VHF station and, or an EPIRB station from one ship to another, must inform the Malta Maritime Authority or any other competent authority prior to installing any of the aforesaid stations on a ship in order to apply for an MMSI number.

Emissions and mode of operation of VHF stations.

**13.** (1) All DSC enabled VHF stations must be able to send and receive class G2B emissions on the frequency 156.525 MHz (Channel 70).

(2) All stations equipped with apparatus for radiotelephony to work in the VHF bands must be able to send and receive class G3E emissions on:

(a) the distress, safety and calling frequency 156.800 MHz (channel 16);

(b) the primary intership frequency 156.300 MHz (channel 06);

(c) the intership navigation safety frequency 156.650 MHz (channel 13); and

(d) all the frequencies necessary for their service.

(3) The transmit carrier power of a VHF station shall not exceed 25 Watts, and the use of power amplifiers is prohibited.

(4) The channel spacing of a VHF station shall be 25 kHz.

(5) In order to facilitate the reception of distress calls and traffic, all transmissions on 156.800 MHz (channel 16) shall be kept to a minimum and shall not exceed one minute.

(6) Before transmitting on the frequency 156.800 MHz (channel 16) a VHF station shall listen on this frequency for a reasonable time to make sure that no distress traffic is being sent.

(7) All persons shall accept, with absolute priority and in all instances, distress calls and messages regardless of their origin, and shall reply in the same manner to such messages immediately taking such action in regard thereto as may be required.

**14.** (1) EPIRB stations shall transmit distress alerts in the 406-406.1 MHz frequency band and, or on 156.525 MHz (VHF channel 70). Minimum technical parameters of EPIRB stations.

(2) The minimum technical parameters of EPIRB stations are those specified in the Second Annex to this Schedule.

**15.** (1) All EPIRB stations shall only be activated in case of distress to transmit distress alerts. Mode of operation of EPIRB stations.

(2) If for any reason a person activates an EPIRB station inadvertently, that person shall immediately contact the Rescue Coordination Centre to cancel the distress alert.

(3) EPIRB stations transmitting on frequency 156.525 MHz shall only be used on ships engaged on voyages solely within sea area A1.

## FIRST ANNEX

(Paragraph 4 of the First Schedule)

Table of the VHF Frequencies

| Channel designator | Transmitting frequencies (MHz) |                     | Inter-ship                                                 | Port operations and ship movement |               | Public correspondence |
|--------------------|--------------------------------|---------------------|------------------------------------------------------------|-----------------------------------|---------------|-----------------------|
|                    | From ship stations             | From coast stations |                                                            | Single frequency                  | Two frequency |                       |
| 60                 | 156.025                        | 160.625             |                                                            |                                   | x             | x                     |
| 01                 | 156.050                        | 160.650             |                                                            |                                   | x             | x                     |
| 61                 | 156.075                        | 160.675             |                                                            | x                                 | x             | x                     |
| 02                 | 156.100                        | 160.700             |                                                            | x                                 | x             | x                     |
| 62                 | 156.125                        | 160.725             |                                                            | x                                 | x             | x                     |
| 03                 | 156.150                        | 160.750             |                                                            | x                                 | x             | x                     |
| 63                 | 156.175                        | 160.775             |                                                            | x                                 | x             | x                     |
| 04                 | 156.200                        | 160.800             |                                                            | x                                 | x             | x                     |
| 64                 | 156.225                        | 160.825             |                                                            | x                                 | x             | x                     |
| 05                 | 156.250                        | 160.850             |                                                            | x                                 | x             | x                     |
| 65                 | 156.275                        | 160.875             |                                                            | x                                 | x             | x                     |
| 06                 | 156.300                        |                     | x                                                          |                                   |               |                       |
| 66                 | 156.325                        | 160.925             |                                                            |                                   | x             | x                     |
| 07                 | 156.350                        | 160.950             |                                                            |                                   | x             | x                     |
| 67                 | 156.375                        | 156.375             | x                                                          | x                                 |               |                       |
| 08                 | 156.400                        |                     | x                                                          |                                   |               |                       |
| 68                 | 156.425                        | 156.425             |                                                            | x                                 |               |                       |
| 09                 | 156.450                        | 156.450             | x                                                          | x                                 |               |                       |
| 69                 | 156.475                        | 156.475             | x                                                          | x                                 |               |                       |
| 10                 | 156.500                        | 156.500             | x                                                          | x                                 |               |                       |
| 70                 | 156.525                        | 156.525             | Digital selective calling for distress, safety and calling |                                   |               |                       |
| 11                 | 156.550                        | 156.550             |                                                            | x                                 |               |                       |
| 71                 | 156.575                        | 156.575             |                                                            | x                                 |               |                       |
| 12                 | 156.600                        | 156.600             |                                                            | x                                 |               |                       |
| 72                 | 156.625                        |                     | x                                                          |                                   |               |                       |
| 13                 | 156.650                        | 156.650             | x                                                          | x                                 |               |                       |
| 73                 | 156.675                        | 156.675             | x                                                          | x                                 |               |                       |
| 14                 | 156.700                        | 156.700             |                                                            | x                                 |               |                       |
| 74                 | 156.725                        | 156.725             |                                                            | x                                 |               |                       |
| 15                 | 156.750                        | 156.750             | x                                                          | x                                 |               |                       |
| 75                 | 156.775                        | 156.775             |                                                            | x                                 |               |                       |
| 16                 | 156.800                        | 156.800             | DISTRESS, SAFETY AND CALLING                               |                                   |               |                       |
| 76                 | 156.825                        | 156.825             |                                                            | x                                 |               |                       |
| 17                 | 156.850                        | 156.850             | x                                                          | x                                 |               |                       |
| 77                 | 156.875                        |                     | x                                                          |                                   |               |                       |
| 18                 | 156.900                        | 161.500             |                                                            | x                                 | x             | x                     |
| 78                 | 156.925                        | 161.525             |                                                            |                                   | x             | x                     |
| 19                 | 156.950                        | 161.550             |                                                            |                                   | x             | x                     |

| Channel designator | Transmitting frequencies (MHz) |                     | Inter-ship | Port operations and ship movement |               | Public correspondence |
|--------------------|--------------------------------|---------------------|------------|-----------------------------------|---------------|-----------------------|
|                    | From ship stations             | From coast stations |            | Single frequency                  | Two frequency |                       |
| 79                 | 156.975                        | 161.575             |            |                                   | x             | X                     |
| 20                 | 157.000                        | 161.600             |            |                                   | x             | X                     |
| 80                 | 157.025                        | 161.625             |            |                                   | x             | X                     |
| 21                 | 157.050                        | 161.650             |            |                                   | x             | X                     |
| 81                 | 157.075                        | 161.675             |            |                                   | x             | X                     |
| 22                 | 157.100                        | 161.700             |            | x                                 | x             | X                     |
| 82                 | 157.125                        | 161.725             |            | x                                 | x             | X                     |
| 23                 | 157.150                        | 161.750             |            | x                                 | x             | X                     |
| 83                 | 157.175                        | 161.775             |            | x                                 | x             | X                     |
| 24                 | 157.200                        | 161.800             |            | x                                 | x             | X                     |
| 84                 | 157.225                        | 161.825             |            | x                                 | x             | X                     |
| 25                 | 157.250                        | 161.850             |            | x                                 | x             | X                     |
| 85                 | 157.275                        | 161.875             |            | x                                 | x             | X                     |
| 26                 | 157.300                        | 161.900             |            | x                                 | x             | X                     |
| 86                 | 157.325                        | 161.925             |            | x                                 | x             | X                     |
| 27                 | 157.350                        | 161.950             |            |                                   | x             | X                     |
| 87                 | 157.375                        | 157.375             |            | x                                 |               |                       |
| 28                 | 157.400                        | 162.000             |            |                                   | x             | X                     |
| 88                 | 157.425                        | 157.425             |            | x                                 |               |                       |
| AIS 1              | 161.975                        | 161.975             |            |                                   |               |                       |
| AIS 2              | 162.025                        | 162.025             |            |                                   |               |                       |

### Specific provisions

- i. Channels 06, 16, 70, AIS 1 and AIS 2 may also be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations and other safety related communications. Maritime ship stations shall avoid interference to such communications.
- ii. Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 W, and subject to the national regulations of the administration concerned when these channels are used in its territorial waters.
- iii. Channel 70 is to be used exclusively for digital selective calling for distress, safety and calling.
- iv. Channel 13 is designated for use on a worldwide basis as a navigation safety communication channel, primarily for intership navigation safety communications. It may also be used for the ship movement and port operations service subject to the national regulations of the administrations concerned.

- v. Channels AIS 1 and AIS 2 are to be used for an automatic identification system (AIS) capable of providing worldwide operation.
- vi. The use of channels 75 and 76 must be restricted to navigation-related communications only and all precautions must be taken to avoid harmful interference to channel 16, for example by limiting the output power to 1 W or by means of geographical separation.

## SECOND ANNEX

(Paragraph 14 of the First Schedule)

### Minimum Technical Parameters of EPIRB stations

**1. EPIRB stations operating in the 406 MHz frequency range**

|                           |                     |
|---------------------------|---------------------|
| Operating frequency range | 406.000-406.100 MHz |
| Designation of Emission   | G1B                 |
| Antenna Polarisation      | Circular or linear  |

**2. EPIRB stations operating on the 156.525 MHz**

|                         |             |
|-------------------------|-------------|
| Operating frequency     | 156.525 MHz |
| Necessary bandwidth     | < 16 kHz    |
| Designation of Emission | G2B         |
| Antenna Polarisation    | Vertical    |

## SECOND SCHEDULE

### (Regulation 3)

#### General Authorisation for Wireless Access Systems

Applicability of  
Second Schedule.

**1.** This General Authorisation applies to any person buying, selling or having in his possession or under his control, or installing and operating a wireless access system or any apparatus intended to be used as a component part of that system.

Interpretation.

**2.** In this Schedule unless the context otherwise requires:

“2.4 GHz band” means the frequency band 2400-2483.5 MHz;

“5 GHz band A” means the frequency band 5150-5350 MHz;

“5 GHz band B” means the frequency band 5470-5725 MHz;

“wireless access systems” means wideband or broadband radio systems including radio local area networks, that allow wireless access for public and private applications disregarding the underlying network topology.

Minimum technical  
parameters.

**3.** (1) The minimum technical parameters of wireless access systems operating in the 2.4 GHz band, shall be those as specified in the First Annex to this Schedule.

(2) The minimum technical parameters of wireless access systems operating in the 5 GHz band A, shall be those as specified in the Second Annex to this Schedule.

(3) The minimum technical parameters of wireless access systems operating in the 5 GHz band B shall be those as specified in the Third Annex to this Schedule.

Location of Use.

**4.** (1) Wireless access systems operating in the 2.4 GHz band and 5 GHz band B may be used at indoor and outdoor locations.

(2) Wireless access systems operating in the 5 GHz band A shall only be used at indoor locations.

## FIRST ANNEX

(Paragraph 3 (1) of the Second Schedule)

### Minimum Technical Parameters of Wireless Access Systems operating in the 2.4 GHz band (Mandatory)

|                                    |                                                                                                 |                                          |
|------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Operational Frequency Range</b> | 2400 – 2483.5 MHz                                                                               |                                          |
| <b>Modulation</b>                  | Frequency hopping, direct sequence spread spectrum or other forms of spread spectrum modulation |                                          |
| <b>Minimum aggregate data rate</b> | 250 kbit/s                                                                                      |                                          |
| <b>Maximum Power (e.i.r.p.)</b>    | 100 mW                                                                                          |                                          |
| <b>Power Density</b>               | <b>Direct Sequence Spread Spectrum</b>                                                          | <b>Frequency Hopping Spread Spectrum</b> |
|                                    | -20 dBW per 1 MHz                                                                               | -10 dBW per 1 MHz                        |

### Additional technical parameters of Wireless Access Systems operating in the 2.4 GHz band (Recommendations)

1. The information detailed in this section is taken into consideration by the Authority in addition to the minimum requirements to be observed when planning and managing the frequency spectrum in Malta. Compliance is recommended.
2. The Authority recommends applying the following harmonised standard to demonstrate that radio apparatus complies with the basic requirements in Directive 1999/5/EC:
  - o EN 300 328 (2003-04), ETSI Electromagnetic compatibility and Radio spectrum Matters (ERM); data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques; Harmonised EN covering essential requirements under Article 3(2) of the R&TTE Directive.

## SECOND ANNEX

(Paragraph 3(2) of the Second Schedule)

### Minimum Technical Parameters of Wireless Access Systems operating in the 5 GHz band 'A'

| Operational Frequency Range       | 5150 – 5250 MHz                 | 5250 – 5350 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum mean e.i.r.p.             | 200 mW                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum mean e.i.r.p. density     | 10 mW per MHz in any 1 MHz band |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limitations                       | Indoor use only                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Additional Technical Requirements | -                               | <p>TPC shall be employed to provide, on average, a mitigation factor of at least 3 dB on the maximum permitted output power of the system. If TPC is not in use, the maximum mean e.i.r.p. and mean e.i.r.p. density limits shall be reduced by 3 dB.</p> <p>Systems operating in the band 5250-5350 MHz shall use mitigation techniques that give at least the same protection as the detection, operational and response requirements described in EN 301 893 to:</p> <ul style="list-style-type: none"> <li>- ensure compatible operation with radiodetermination systems;</li> <li>- equalise the probability of selecting a specific channel for all available channels (see <i>Information for the Second and Third Annexes to the Second Schedule</i>) so as to ensure, on average, a near uniform spread of the spectrum loading.</li> </ul> |

### Additional technical parameters of Wireless Access Systems operating in the 5 GHz band 'A' (Recommendations)

1. The information detailed in this section is taken into consideration by the Authority in addition to the minimum requirements to be observed when planning and managing the frequency spectrum in Malta. Compliance is recommended.
2. The Authority recommends applying the following harmonised standard to demonstrate that radio apparatus complies with the basic requirements in Directive 1999/5/EC:
  - o EN 301 893 (2003-08), ETSI Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive.

### THIRD ANNEX

(Paragraph 3(3) of the Second Schedule)

#### Minimum Technical Parameters of Wireless Access Systems operating in the 5 GHz band 'B'

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operational Frequency Band</b>        | T<br>5470 – 5725 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Maximum mean e.i.r.p.</b>             | 1 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Maximum mean e.i.r.p. density</b>     | 50 mW per MHz in any 1 MHz band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Additional Technical Requirements</b> | <p>TPC shall be employed to provide, on average, a mitigation factor of at least 3 dB on the maximum permitted output power of the system. If TPC is not in use, the maximum mean e.i.r.p. and mean e.i.r.p. density limits shall be reduced by 3 dB.</p> <p>Systems shall use mitigation techniques that give at least the same protection as the detection, operational and response requirements described in EN 301 893 to:</p> <ul style="list-style-type: none"> <li>- ensure compatible operation with radio determination systems;</li> <li>- equalise the probability of selecting a specific channel for all available channels (see <i>Information for the Second and Third Annexes to the Second Schedule</i>) so as to ensure, on average, a near uniform spread of the spectrum loading.</li> </ul> |

#### Additional technical parameters of Wireless Access Systems operating in the 5 GHz band 'B' (Recommendations)

1. The information detailed in this section is taken into consideration by the Authority in addition to the minimum requirements to be observed when planning and managing the frequency spectrum in Malta. Compliance is recommended.
2. The Authority recommends applying the following harmonised standard to demonstrate that radio apparatus complies with the basic requirements in Directive 1999/5/EC:
  - o EN 301 893 (2003-08), ETSI Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive.

## Information for the Second and Third Annexes to the Second Schedule

### Nominal Carrier Frequency Allocations

| 5 GHz Band Designation | Carrier centre frequency $f_c$<br>(MHz) |
|------------------------|-----------------------------------------|
| A                      | 5180                                    |
| A                      | 5200                                    |
| A                      | 5220                                    |
| A                      | 5240                                    |
| A                      | 5260                                    |
| A                      | 5280                                    |
| A                      | 5300                                    |
| A                      | 5320                                    |
| B                      | 5500                                    |
| B                      | 5520                                    |
| B                      | 5540                                    |
| B                      | 5560                                    |
| B                      | 5580                                    |
| B                      | 5600                                    |
| B                      | 5620                                    |
| B                      | 5640                                    |
| B                      | 5660                                    |
| B                      | 5680                                    |
| B                      | 5700                                    |

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### THIRD SCHEDULE

#### (Regulation 3)

#### **General Authorisation for 24 GHz and 79 GHz Automotive Short-Range Radar Radiocommunications Apparatus**

**1.** (1) This General Authorization applies to any person buying, selling or having in his possession or under his control, or installing and operating automotive short-range radar apparatus or any apparatus intended to be used as a component part of that apparatus.

Applicability of Third Schedule.

**2.** In this Schedule:

Interpretation.

“24 GHz range radio spectrum band” means the 24.15 ±2.50 gigahertz frequency band;

“79 GHz range radio spectrum band” means the frequency range between 77 and 81 gigahertz;

“automotive short-range radar apparatus” means equipment providing road vehicle-based radar functions for collision mitigation and traffic safety applications;

“automotive short-range radar apparatus put into service in the Community” means automotive short-range radar originally installed or replacing one so installed in a vehicle which will be or which has been registered, placed on the market or put into service in the Community;

**3.** (1) Automotive short-range radar apparatus shall operate in the 24 GHz range and 79 GHz radio spectrum bands.

Minimum technical parameters.

(2) The 24 GHz range radio spectrum band is available for the ultra-wide band part of automotive short-range radar apparatus with a maximum mean power density of –41.3 dBm/MHz e.i.r.p. and peak power density of 0 dBm/ 50MHz e.i.r.p., except for frequencies below 22 GHz, where the maximum mean power density shall be limited to –61.3 dBm/MHz e.i.r.p.

(3) The 24.05-24.25 GHz radio spectrum band is designated for the narrow-band emission mode/component, which may consist of an unmodulated carrier, with a maximum peak power of 20 dBm e.i.r.p. and a duty cycle limited to 10% for peak emissions higher than –10 dBm e.i.r.p.

(4) Emissions within the 23.6-24.0 GHz band that appear 30° or greater above the horizontal plane shall be attenuated by at least 25 dB for automotive short-range radar apparatus placed on the market before 2010 and thereafter by at least 30 dB.

(5) The maximum mean power density of automotive short-range radar apparatus operating in the 79 GHz range radio spectrum band shall be of -3 dBm/MHz e.i.r.p. associated with a peak limit of 55 dBm e.i.r.p.

(6) The maximum mean power density outside a vehicle resulting from the operation of one automotive short-range radar apparatus operating in the 79 GHz range radio spectrum band shall not exceed -9 dBm/MHz e.i.r.p.

Limitations.

**4.** (1) The 24 GHz range radio spectrum band shall remain available for automotive short-range radar radiocommunications apparatus until 30 June 2013.

(2) After 30 June 2013, the 24 GHz range radio spectrum band will cease to be available for automotive short range radar radiocommunication apparatus mounted on any vehicle except where that apparatus was originally installed, or is replacing apparatus so installed in a vehicle registered, placed on the market or put into service before that date in the Community.

(3) Automotive short-range radar equipment mounted in vehicles shall only operate when the vehicle is active.

## FOURTH SCHEDULE

### (Regulation 3)

#### General Authorisation for Non-Specific Short-Range Devices

**1.** This Schedule shall apply to any person buying, selling or having in his possession or under his control, or installing and operating non-specific short-range radiocommunications apparatus or any apparatus intended to be used as a component part of that apparatus. Applicability of Fourth Schedule.

**2.** In this Schedule: Interpretation.

“DSSS” means direct sequence spread spectrum;

“FHSS” means frequency-hopping spread spectrum; and

“LBT” means listen before talk.

**3.** The minimum technical parameters of non-specific short-range radiocommunications apparatus, operating in frequency bands: Minimum technical parameters.

- (a) 6765-6795 kHz;
- (b) 13.553-13.567 MHz;
- (c) 26.957-27.283 MHz;
- (d) 40.66-40.70 MHz;
- (e) 138.20-138.45 MHz;
- (f) 433.05-434.79 MHz;
- (g) 863.0-870.0 MHz, excluding 869.2-869.4 MHz and 869.6-869.7 MHz;
- (g1) 868.0-868.6 MHz;
- (g2) 868.7-869.2 MHz;
- (g3) 869.4-869.65 MHz;
- (g4) 869.7-870.0 MHz;
- (h) 2400-2483.5 MHz;
- (i) 5725-5875 MHz; and
- (j) 24.0-24.25 GHz;

shall be those specified in the Annex to this Schedule.

**4.** Video applications shall only be used in the frequency bands described in (h), (i) and (j) of paragraph 3 of this Schedule. Limitations.

## ANNEX

(Paragraph 3 of the Fourth Schedule)

**Minimum Technical Parameters of  
Non-Specific Short-Range Devices**

| Frequency band |                   | Mandatory Parameters                    |                                |                                              |                                                                              | Informative Parameters            |                                                                     |  |
|----------------|-------------------|-----------------------------------------|--------------------------------|----------------------------------------------|------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------|--|
|                |                   | Maximum transmit power / Magnetic field | Duty cycle                     | Channel spacing                              | Power Density                                                                | Recommended (harmonized) standard | Notes                                                               |  |
| a.             | 6765-6795 kHz     | 42 dBμA/m at 10 m                       | No restriction                 | No spacing                                   | -                                                                            | EN 300 330                        |                                                                     |  |
| b.             | 13.553-13.567 MHz | 42 dBμA/m at 10 m                       | No restriction                 | No spacing                                   | -                                                                            | EN 300 330                        |                                                                     |  |
| c.             | 26.957-27.283 MHz | 10 mW e.r.p. or 42 dBμA/m at 10 m       | No restriction                 | No spacing                                   | -                                                                            | EN 300 220<br>EN 300 330          |                                                                     |  |
| d.             | 40.66-40.70 MHz   | 10 mW e.r.p.                            | No restriction                 | No spacing                                   | -                                                                            | EN 300 220                        |                                                                     |  |
| e.             | 138.20-138.45 MHz | 10 mW e.r.p.                            | < 1.0 %                        | No spacing                                   | -                                                                            | EN 300 220                        |                                                                     |  |
| f.             | 433.05-434.79 MHz | 10 mW e.r.p.                            | < 10 %                         | No spacing                                   | -                                                                            | EN 300 220                        | Note 4                                                              |  |
| f1.            | 433.05-434.79 MHz | 1 mW e.r.p.                             | up to 100 %                    | No spacing                                   | -13 dBm/10 kHz for wideband modulation with a bandwidth greater than 250 kHz | EN 300 220                        | Note 4 a                                                            |  |
| f2.            | 434.04-434.79 MHz | 10 mW e.r.p.                            | up to 100 %                    | up to 25 kHz                                 | -                                                                            | EN 300 220                        | Note 4 a                                                            |  |
| g.             | 863.0 -870 MHz    | = 25 mW e.r.p.                          | = 0.1 % or LBT (notes 1, 5)    | = 100 kHz (for 47 or more channels) (note 2) | -                                                                            | EN 300 220                        | Notes 3, 4, 6<br>FHSS modulation                                    |  |
|                |                   | = 25 mW e.r.p. (note 6)                 | = 0.1 % or LBT (notes 1, 5, 6) | No spacing                                   | -4.5 dBm/100 kHz (note 8)                                                    | EN 300 220                        | Notes 3, 4, 6<br>DSSS and other wideband modulation other than FHSS |  |

| Frequency band |                  | Mandatory Parameters                    |                             |                                                 |               |                                   | Informative Parameters                                                                                                              |  |
|----------------|------------------|-----------------------------------------|-----------------------------|-------------------------------------------------|---------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
|                |                  | Maximum transmit power / Magnetic field | Duty cycle                  | Channel spacing                                 | Power Density | Recommended (harmonized) standard | Notes                                                                                                                               |  |
|                |                  | = 25 mW e.r.p.                          | = 0.1 % or LBT (notes 1, 5) | = 100 kHz (for 1 or more channels) (notes 2, 7) | -             | EN 300 220                        | Notes 3, 4, 6<br>Narrow / wideband modulation                                                                                       |  |
| g1.            | 868.0-868.6 MHz  | = 25 mW e.r.p.                          | = 1 % or LBT (note 1)       | No spacing (for 1 or more channels) (note 2)    | -             | EN 300 220                        | Note 4<br>Narrow / wideband modulation<br>No channel spacing, however, the whole stated frequency band may be used                  |  |
| g2.            | 868.7-869.2 MHz  | = 25 mW e.r.p.                          | = 0.1 % or LBT (note 1)     | No spacing (for 1 or more channels) (note 2)    | -             | EN 300 220                        | Note 4<br>Narrow / wideband modulation<br>No channel spacing, however, the whole stated frequency band may be used                  |  |
| g3.            | 869.4-869.65 MHz | = 500 mW e.r.p.                         | = 10 % or LBT (note 1)      | 25 kHz (for 1 or more channels)                 | -             | EN 300 220                        | Note 4<br>Narrow / wideband modulation<br>The whole stated frequency band may be used as 1 channel for high speed data transmission |  |

|     |                   | Mandatory Parameters                    |                |                                     |               | Informative Parameters            |                                                                                                                             |
|-----|-------------------|-----------------------------------------|----------------|-------------------------------------|---------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|     | Frequency band    | Maximum transmit power / Magnetic field | Duty cycle     | Channel spacing                     | Power Density | Recommended (harmonized) standard | Notes                                                                                                                       |
| g4. | 869.7-870.0 MHz   | = 5 mW e.i.r.p.                         | Up to 100 %    | No spacing (for 1 or more channels) | -             | EN 300 220                        | Note 4a<br><br>Narrow / wideband modulation<br><br>No channel spacing, however, the whole stated frequency band may be used |
| h.  | 2400.0-2483.5 MHz | 10 mW e.i.r.p.                          | No restriction | No spacing                          | -             | EN 300 440                        |                                                                                                                             |
| i.  | 5725-5875 MHz     | 25 mW e.i.r.p.                          | No restriction | No spacing                          | -             | EN 300 440                        |                                                                                                                             |
| j.  | 24.00-24.25 GHz   | 100 mW e.i.r.p.                         | No restriction | No spacing                          | -             | EN 300 440                        |                                                                                                                             |

## Notes:

1. For single frequency agile devices the duty cycle limit applies to the total transmission unless LBT is used. For LBT devices without frequency agility, the duty cycle limit applies.
2. The preferred channel spacing is 100 kHz allowing for a subdivision into 50 kHz or 25 kHz.
3. The sub-bands 869.2-869.4 MHz and 869.6-869.7 MHz are excluded.
4. The duty cycle, LBT or equivalent technique shall not be user dependent and shall therefore be guaranteed by appropriate technical means.
- 4a. Audio applications should be excluded. Voice application allowed with spectrum access technique such as LBT or equivalent technique, the transmitter shall include a power output sensor controlling the transmitter to a maximum transmit period of 1 minute.
5. Duty cycle may be increased to 1% if the band is limited to 865 – 868 MHz.
6. For other wide-band modulation than FHSS and DSSS with a bandwidth of 200 kHz to 3 MHz, duty cycle can be increased to 1% if the band is limited to 865-868 MHz and power to = 10mW erp.
7. For other narrow-band modulation with a bandwidth of 50 kHz to 200 kHz, the band is limited to 865.5 – 867.5 MHz.
8. The power density can be increased to +6.2 dBm/100 kHz and +0.8 dBm/100 kHz, if the band of operation is limited to 865 – 868 MHz and 865 – 870 MHz respectively.

## FIFTH SCHEDULE

### (Regulation 3)

#### General Authorisation for Radiocommunications Apparatus intended to be used for Inductive Applications

**1.** This Schedule shall apply to any person buying, selling or having in his possession or under his control, or installing and operating short-range radiocommunications apparatus intended to be used for inductive applications or any apparatus intended to be used as a component part of that apparatus.

Applicability of  
Fifth Schedule.

**2.** The minimum technical parameters of short-range radiocommunications apparatus intended to be used for inductive applications, operating in frequency bands:

Minimum technical  
parameters.

- (a) 9-59.75 kHz;
- (b) 59.75-60.25 kHz;
- (c) 60.25-70 kHz;
- (d) 70-119 kHz;
- (e) 119-135 kHz;
- (f) 135-140 kHz;
- (g) 140-148.5 kHz;
- (h) 148.5-5000 kHz;
- (i) 400-600 kHz;
- (j) 3155-3400 kHz;
- (k) 5-30 MHz;
- (l) 6765-6795 kHz;
- (m) 7400-8800 kHz;
- (n1) 13.553-13.567 MHz;
- (n1) 13.553-13.567 MHz;
- (o) 26.957-27.283 MHz; and
- (n) 10.2-11 MHz

shall be those specified in the Annex to this Schedule.

**3.** (1) The external antennas of short-range radio-communications apparatus intended to be used for inductive applications, operating in frequency bands 2(a), 2(b), 2(c), 2(d), 2(e), 2(f), 2(g), 2(h), 2(i), 2(j) and 2(k), shall only be of a loop coil type.

Limitations.

(2) The field strength of radiocommunications apparatus intended to be used for inductive applications operating in the frequency bands at 2(a), 2(b) and 2(c) employing loop antennas with an area between 0.05m<sup>2</sup> and 0.16m<sup>2</sup>, shall be reduced by 10 x Log (area/0.16m<sup>2</sup>).

(3) The field strength of loop antennas with an area less than  $0.05\text{m}^2$ , operating in the frequency bands at 2(a), 2(b) and 2(c), shall be reduced by 10 dB.

# ANNEX TO THE FIFTH SCHEDULE

(Paragraph 2 of the Fifth Schedule)

## Minimum Technical Parameters of Short-Range Radiocommunications Apparatus intended to be used for Inductive Applications

| Frequency band     | Maximum magnetic field | Duty cycle     | Channel spacing | Recommended (harmonized) standard (Informative) | Remarks                                                                                                                                                                                                                                                                                                                                        |
|--------------------|------------------------|----------------|-----------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. 9-59.75 kHz     | 72 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      | Field strength level descending 3dB/oct at 30 kHz                                                                                                                                                                                                                                                                                              |
| b. 59.75-60.25 kHz | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                                                                                                                |
| c. 60.25-70 kHz    | 69 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      | Field strength level descending 3dB/oct at 30 kHz                                                                                                                                                                                                                                                                                              |
| d. 70-119 kHz      | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                                                                                                                |
| e. 119-135 kHz     | 66 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      | Field strength level descending 3dB/oct at 30 kHz                                                                                                                                                                                                                                                                                              |
| f. 135-140 kHz     | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                                                                                                                |
| g. 140-148.5 kHz   | 37.7 dBµA/m at 10 m    | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                                                                                                                |
| h. 148.5-5000 kHz  | -15 dBµA/m at 10 m     | No restriction | No spacing      | EN 300 330                                      | The maximum field strength is specified in a bandwidth of 10 kHz. The maximum allowed total field strength is -5dBµA/m at 10m for systems operating at bandwidths larger than 10 kHz whilst keeping the density limit (-15dBµA/m in a bandwidth of 10 kHz).                                                                                    |
| i. 400-600 kHz     | -8 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      | For RFID use only.<br>The maximum field strength is specified in a bandwidth of 10 MHz. The maximum allowed total field strength is -5dBµA/m at 10m for systems operating at bandwidths larger than 10 MHz whilst keeping the density limit (-8dBµA/m in a bandwidth of 10 kHz).<br>Systems should operate with a minimum bandwidth of 30 kHz. |

| Frequency band        | Maximum magnetic field | Duty cycle     | Channel spacing | Recommended (harmonized) standard (Informative) | Remarks                                                                                                                                                                                                                                                     |
|-----------------------|------------------------|----------------|-----------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| j. 3155-3400 MHz      | 13.5 dBµA/m at 10 m    | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |
| k. 5-30 MHz           | -20 dBµA/m at 10 m     | No restriction | No spacing      | EN 300 330                                      | The maximum field strength is specified in a bandwidth of 10 MHz. The maximum allowed total field strength is -5dBµA/m at 10m for systems operating at bandwidths larger than 10 MHz whilst keeping the density limit (-20dBµA/m in a bandwidth of 10 kHz). |
| l. 6765-6795 kHz      | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |
| m. 7400-8800 kHz      | 9 dBµA/m at 10 m       | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |
| n1. 13.553-13.567 MHz | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |
| n2. 13.553-13.567 MHz | 60 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      | For RFID and EAS.                                                                                                                                                                                                                                           |
| o. 26.957-27.283 MHz  | 42 dBµA/m at 10 m      | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |
| p. 10.2-11 MHz        | 9 dBµA/m at 10 m       | No restriction | No spacing      | EN 300 330                                      |                                                                                                                                                                                                                                                             |

## SIXTH SCHEDULE

### (Regulation 3)

#### **General Authorisation for Radiocommunications Apparatus for Detecting Movement and Alert**

**1.** This Schedule shall apply to any person buying, selling or having in his possession or under his control, or installing and operating radiocommunications apparatus for detecting movement and alert or any apparatus intended to be used as a component part of that apparatus.

Applicability of  
Sixth Schedule.

**2.** The minimum technical parameters of radiocommunications apparatus for detecting movement and alert, operating in frequency bands:

Minimum technical  
parameters.

- (a) 2400-2483.5 MHz;
- (b) 9200-9500 MHz;
- (c) 9500-9975 MHz;
- (d) 10.5-10.6 GHz;
- (e) 13.4-14.0 GHz; and
- (f) 24.05-24.25 GHz;

shall be those specified in the Annex to this Schedule.

# ANNEX TO THE SIXTH SCHEDULE

(Paragraph 2 to the Sixth Schedule)

## Minimum Technical Parameters for Radiocommunications Apparatus for Detecting Movement and Alert

| Frequency band |                 | Maximum transmit power | Duty cycle     | Channel spacing | Recommended (harmonized) standard (Informative) |
|----------------|-----------------|------------------------|----------------|-----------------|-------------------------------------------------|
| a.             | 2400-2483.5 MHz | 25 mW e.i.r.p.         | No restriction | No spacing      | EN 300 440                                      |
| b.             | 9200-9500 MHz   | 25 mW e.i.r.p.         | No restriction | No spacing      | EN 300 440                                      |
| c.             | 9500-9975 MHz   | 25 mW e.i.r.p.         | No restriction | No spacing      | EN 300 440                                      |
| d.             | 10.5-10.6 GHz   | 500 mW e.i.r.p.        | No restriction | No spacing      | EN 300 440                                      |
| e.             | 13.4-14.0 GHz   | 25 mW e.i.r.p.         | No restriction | No spacing      | EN 300 440                                      |
| f.             | 24.05-24.25 GHz | 100 mW e.i.r.p.        | No restriction | No spacing      | EN 300 440                                      |

## SEVENTH SCHEDULE

### (Regulation 3)

#### General Authorisation for Model Control Radiocommunications Apparatus

**1.** This Schedule shall apply to any person buying, selling or having in his possession or under his control, or installing and operating model control radiocommunications apparatus or any apparatus intended to be used as a component part of that apparatus. Applicability of Seventh Schedule.

**2.** The minimum technical parameters of model control radiocommunications apparatus, operating in frequency bands: Minimum technical parameters.

- (a) 26.995, 27.045, 27.095, 27.145, 27.195 MHz;
- (b) 34.995-35.225 MHz; and
- (c) 40.665, 40.675, 40.685, 40.695 MHz;

shall be those specified in the Annex to this Schedule .

**3.** Model control apparatus operating in frequency band at 2(b) shall be restricted to flying models only. Limitations.

**ANNEX TO THE SEVENTH SCHEDULE**

(Paragraph 2 of the Seventh Schedule)

**Minimum Technical Parameters of Model Control  
Radiocommunications Apparatus**

| <b>Frequency band</b> |                                                        | <b>Maximum transmit power</b> | <b>Duty cycle</b> | <b>Channel spacing</b> | <b>Recommended (harmonized) standard (Informative)</b> | <b>Comments</b>        |
|-----------------------|--------------------------------------------------------|-------------------------------|-------------------|------------------------|--------------------------------------------------------|------------------------|
| a.                    | 26.995,<br>27.045,<br>27.095,<br>27.145,<br>27.195 MHz | 100 mW e.r.p.                 | No restriction    | 10 kHz                 | EN 300 220                                             | -                      |
| b.                    | 34.995-35.225 MHz                                      | 100 mW e.r.p.                 | No restriction    | 10 kHz                 | EN 300 220                                             | Only for flying models |
| c.                    | 40.665,<br>40.675,<br>40.685,<br>40.695 MHz            | 100 mW e.r.p.                 | No restriction    | 10 kHz                 | EN 300 220                                             | -                      |

## EIGHTH SCHEDULE

### (Regulation 3)

#### General Authorisation for Wireless Alarm Systems

**1.** This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating wireless alarm systems including social alarms and alarms for security and safety or any apparatus intended to be used as a component part of that system.

Applicability of Eighth Schedule.

**2.** The minimum technical parameters of wireless alarm systems, operating in frequency bands:

Minimum technical parameters.

- (a) 169.4750-169.4875 MHz;
- (b) 169.5875-169.6 MHz;
- (c) 868.6-868.7 MHz;
- (d) 869.25-869.30 MHz;
- (e) 869.65-869.7 MHz;
- (f) 869.2-869.25 MHz; and
- (g) 869.3-869.4 MHz;

shall be those specified in the Annex to this Schedule.

**3.** The use of the bands at 2(a), 2(b) and 2(f) by wireless alarm systems shall be restricted to social alarms only.

Limitations.

# ANNEX TO THE EIGHTH SCHEDULE

## (Paragraph 2 of the Eighth Schedule)

### Minimum Technical Parameters of Wireless Alarm Systems

| Frequency band |                       | Maximum transmit power | Duty cycle | Channel spacing | Recommended (harmonized) standard (Informative) | Notes (Informative)                                                                      |
|----------------|-----------------------|------------------------|------------|-----------------|-------------------------------------------------|------------------------------------------------------------------------------------------|
| a.             | 169.4750-169.4875 MHz | 10 mW e.r.p.           | < 0.1 %    | 12.5 kHz        | EN 300 220                                      | Social alarms                                                                            |
| b.             | 169.5875-169.6 MHz    | 10 mW e.r.p.           | < 0.1 %    | 12.5 kHz        | EN 300 220                                      | Social alarms                                                                            |
| c.             | 868.6-868.7 MHz       | 10 mW e.r.p.           | < 1.0 %    | 25 kHz          | EN 300 220                                      | The whole frequency band may also be used as 1 channel for high speed data transmissions |
| d.             | 869.25-869.30 MHz     | 10 mW e.r.p.           | < 0.1 %    | 25 kHz          | EN 300 220                                      | -                                                                                        |
| e.             | 869.65-869.7 MHz      | 25 mW e.r.p.           | < 10 %     | 25 kHz          | EN 300 220                                      | -                                                                                        |
| f.             | 869.2-869.25 MHz      | 10 mW e.r.p.           | < 0.1 %    | 25 kHz          | EN 300 220                                      | Social alarms                                                                            |
| g.             | 869.3-869.4 MHz       | 10 mW e.r.p.           | < 1.0 %    | 25 kHz          | EN 300 220                                      | -                                                                                        |

## NINTH SCHEDULE

### (Regulation 3)

#### General Authorisation for Wireless Audio Systems

**1.** This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating wireless audio systems or any apparatus intended to be used as a component part of that system. Applicability of Ninth Schedule.

**2.** The minimum technical parameters of wireless audio systems, operating in frequency bands: Minimum technical parameters.

- (a) 87.5-108 MHz;
- (b) 863-865 MHz;
- (c) 864.8-865.0 MHz; and
- (d) 1795-1800 MHz;

shall be those specified in the Annex to this Schedule.

**3.** (1) The use of the band paragraph 2 (c) of this Schedule by wireless audio systems shall be restricted to narrow band analogue voice apparatus only. Limitations.

(2) Wireless audio systems operating in the frequency bands in paragraph 2 of this Schedule shall not transmit a radio frequency carrier when not in use.

**ANNEX TO THE NINTH SCHEDULE**

**(Paragraph 2 of the Ninth Schedule)**

**Minimum Technical Parameters of  
Wireless Audio Systems**

| <b>Frequency band</b> |                 | <b>Maximum transmit power</b> | <b>Duty cycle</b> | <b>Channel spacing</b> | <b>Recommended (harmonized) standard (Informative)</b> | <b>Notes (Informative)</b>                |
|-----------------------|-----------------|-------------------------------|-------------------|------------------------|--------------------------------------------------------|-------------------------------------------|
| a.                    | 87.5-108 MHz    | 50 nW e.r.p.                  | up to 100 %       | 200 kHz                | EN 301 357                                             | -                                         |
| b.                    | 863-865.0 MHz   | 10 mW e.r.p.                  | up to 100 %       | No spacing             | EN 300 220                                             | -                                         |
| c.                    | 864.8-865.0 MHz | 10 mW e.r.p.                  | up to 100 %       | 50 kHz                 | EN 301 357                                             | Narrow band analogue voice apparatus only |
| d.                    | 1795-1800 MHz   | 20 mW e.i.r.p.                | up to 100 %       | No spacing             | EN 301 357                                             | -                                         |

## TENTH SCHEDULE

### (Regulation 3)

#### General Authorisation for DECT User Terminal Apparatus

**1.** (1) This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating DECT user terminal apparatus or any apparatus intended to be used as a component part of that apparatus.

Applicability of  
Tenth Schedule.

(2) In this Schedule “DECT” means digital enhanced cordless telecommunications.

**2.** The minimum technical parameters of DECT user terminal apparatus operating in the frequency band 1800-1900 MHz shall be those specified in the Annex to this Schedule.

Minimum technical  
parameters.

**ANNEX TO THE TENTH SCHEDULE****(Paragraph 2 of the Tenth Schedule)****Minimum Technical Parameters of DECT user terminal apparatus**

|                                                                |                                                   |
|----------------------------------------------------------------|---------------------------------------------------|
| <b>Frequency band</b>                                          | 1800-1900 MHz                                     |
| <b>Maximum Transmit Power</b>                                  | 250 mW peak e.r.p.<br>(peak power over time-slot) |
| <b>Channel Separation</b>                                      | 1728 kHz                                          |
| <b>Type of Modulation</b>                                      | Gaussian Minimum Shift Keying (GMSK)              |
| <b>Transmission Capacity</b>                                   | 1152 kbit/s per carrier                           |
| <b>Recommended<br/>(harmonized) standard<br/>(Informative)</b> | EN 301 406                                        |

## **ELEVENTH SCHEDULE**

### **(Regulation 3)**

#### **General Authorisation for Analogue PMR 446 Radiocommunications Apparatus**

**1.** (1) This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating analogue PMR 446 radiocommunications apparatus or any apparatus intended to be used as a component part of that apparatus. Applicability of Eleventh Schedule.

(2) In this Schedule “PMR 446 radiocommunications apparatus” means short range voice communications apparatus intended to operate on collective frequencies shared by many users on an uncoordinated basis.

**2.** The minimum technical parameters of analogue PMR 446 radiocommunications apparatus shall be those specified in the Annex to this Schedule. Minimum technical parameters.

**3.** PMR 446 radiocommunications apparatus shall only use integral antennas. Limitations.

**ANNEX TO THE ELEVENTH SCHEDULE****(Paragraph 2 of the Eleventh Schedule)****Minimum Technical Parameters of Analogue PMR 446 Radiocommunications Apparatus**

|                                                                |                   |
|----------------------------------------------------------------|-------------------|
| <b>Frequency band</b>                                          | 446.00-446.10 MHz |
| <b>Maximum Transmit Power</b>                                  | 500 mW e.r.p.     |
| <b>Channel Separation</b>                                      | 12.5 kHz          |
| <b>Recommended<br/>(harmonized) standard<br/>(Informative)</b> | EN 300 296        |

## TWELFTH SCHEDULE

### (Regulation 3)

#### **General Authorisation for apparatus using ultra-wideband technology**

**1.** This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating radiocommunications apparatus using ultra-wideband technology or any apparatus intended to be used as a component part of that apparatus. Applicability of Twelfth Schedule.

**2.** In this Schedule unless the context otherwise requires: Interpretation.

“Apparatus using ultra-wideband technology” means apparatus incorporating, as an integral part or as an accessory, technology for short-range radiocommunication, involving the international generation and transmission of radio-frequency energy that spreads over a frequency range wider than 50 MHz, which may overlap several frequency bands allocated to radiocommunication services;

“indoors” means inside buildings or places in which the shielding will typically provide the necessary attenuation to protect radiocommunications services against harmful interference.

**3.** Apparatus using ultra-wideband technology shall meet the conditions set out in the Annex to this Schedule. Minimum technical parameters.

**4.** Apparatus covered under this Schedule shall either be used indoors or, if used outdoors it is not attached to a fixed installation, a fixed infrastructure, a fixed outdoor antenna or an automotive vehicle. Limitations.

## ANNEX TO THE TWELFTH SCHEDULE

## (Paragraph 3 of the Twelfth Schedule)

**Minimum Technical Parameters of Apparatus using  
Ultra - Wideband Technology**

**1. Maximum e.i.r.p. densities in the absence of appropriate mitigation techniques**

| <b>Frequency Range<br/>(GHz)</b> | <b>Maximum mean e.i.r.p.<br/>density (dBm/MHz)</b>                                      | <b>Maximum peak e.i.r.p.<br/>density (dBm/50MHz)</b>                                    |
|----------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| below 1.6 GHz                    | -90.0                                                                                   | -50.0                                                                                   |
| 1.6 to 3.4                       | -85.0                                                                                   | -45.0                                                                                   |
| 3.4 to 3.8                       | -85.0                                                                                   | -45.0                                                                                   |
| 3.8 to 4.2                       | -70.0                                                                                   | -30.0                                                                                   |
| 4.2 to 4.8                       | -41.3<br><i>(until 31 December 2010)</i><br><br>-70<br><i>(beyond 31 December 2010)</i> | 0.0<br><i>(until 31 December 2010)</i><br><br>-30.0<br><i>(beyond 31 December 2010)</i> |
| 4.8 to 6.0                       | -70.0                                                                                   | -30.0                                                                                   |
| 6.0 to 8.5                       | -41.3                                                                                   | 0.0                                                                                     |
| 8.5 to 10.6                      | -65.0                                                                                   | -25.0                                                                                   |
| above 10.6                       | -85.0                                                                                   | -45.0                                                                                   |

**2. Appropriate Mitigation Techniques**

A maximum mean e.i.r.p. density of -41.3 dBm/MHz is allowed in the 3.4 - 4.8 GHz bands provided that a low duty cycle restriction is applied in which the sum of all transmitted signals is less than 5% of the time each second and less than 0.5% of the time each hour, and provided that each transmitted signal does not exceed 5 milliseconds.

Apparatus using ultra-wideband technology may also be allowed to use the radio spectrum with e.i.r.p. limits other than those set out in the table in point 1 provided that appropriate mitigation techniques other than those set out in the first subparagraph are applied with the result that the apparatus achieves at least an equivalent level of protection to that provided by the limits in the table set out in point 1.

## **THIRTEENTH SCHEDULE**

### **(Regulation 3)**

#### **General Authorisation for Radio Frequency Identification (RFID) apparatus operating in the ultra high frequency (UHF) band**

**1.** This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating radio frequency identification apparatus or any apparatus intended to be used as a component part of that apparatus.

Applicability of  
Thirteenth  
Schedule.

**2.** The minimum technical parameters of RFID apparatus shall be those specified in the Annex to this Schedule.

Minimum technical  
parameters.

## ANNEX TO THE THIRTEENTH SCHEDULE

## (Paragraph 3 of the Thirteenth Schedule)

**Minimum Technical Parameters of RFID apparatus operating in the UHF band**

| UHF Frequency Band           | Specific Condition |                 | Available Channel Numbers |
|------------------------------|--------------------|-----------------|---------------------------|
|                              | Maximum Power      | Channel Spacing |                           |
| Sub-band A : 865-865.6 MHz   | 100 mW e.r.p.      | 200 kHz         | 1 to 3                    |
| Sub-band B : 865.6-867.6 MHz | 2 W e.r.p.         | 200 kHz         | 4 to 13                   |
| Sub-band C : 867.6-868 MHz   | 500 mW e.r.p.      | 200 kHz         | 14 to 15                  |

Channel centre frequencies are  $864.9 \text{ MHz} + (0.2 \text{ MHz} * \text{channel number})$

**FOURTEENTH SCHEDULE****(Regulation 3)****General Authorisation for Radiocommunications Apparatus  
for tracking, tracing and data acquisition**

- 1.** This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and radiocommunications apparatus for tracking, tracing and data acquisition or any apparatus intended to be used as a component part of that apparatus.

Applicability of Fourteenth Schedule.
- 2.** The minimum technical parameters of radiocommunications apparatus for tracking, tracing and data acquisition shall be those specified in the Annex to this Schedule.

Minimum technical parameters.

## ANNEX TO THE FOURTEENTH SCHEDULE

## (Paragraph 3 of the Fourteenth Schedule)

**Minimum Technical Parameters of radiocommunications apparatus for  
tracking, tracing and data acquisition**

| Frequency band |                   | Maximum transmit power / Magnetic field | Duty cycle | Maximum Channel spacing | Recommended (harmonized) standard (Informative) | Notes (Informative)        |
|----------------|-------------------|-----------------------------------------|------------|-------------------------|-------------------------------------------------|----------------------------|
| a.             | 169.4-169.475 MHz | 500 mW e.r.p.                           | <10 %      | 50 kHz                  | EN 300 220                                      | Meter reading              |
| b.             | 169.4-169.475 MHz | 500 mW e.r.p.                           | <1 %       | 50 kHz                  | EN 300 220                                      | Asset tracking and tracing |



